

Spinal research

That pain in your back could be in your genes.

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Research ethics 101

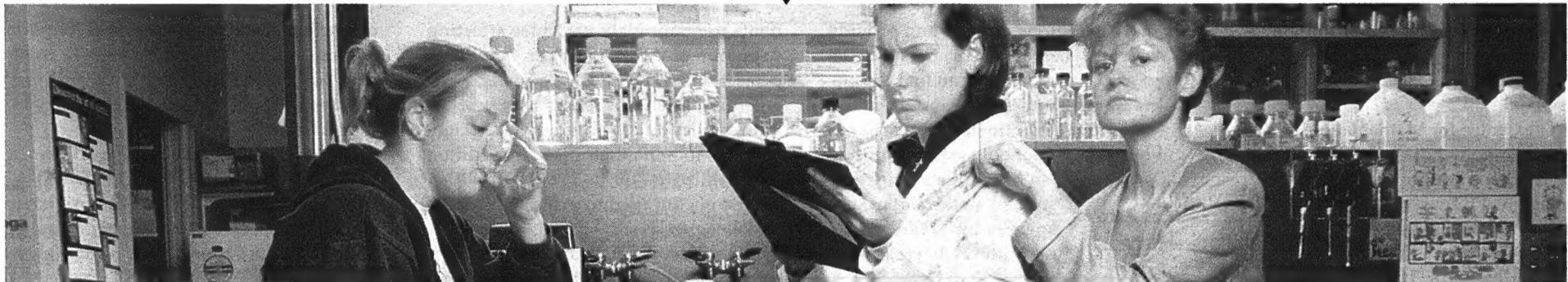
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UNIVERSITY OF ALBERTA

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Seniors no longer entitled to free education at the U of A

Administration cites higher education costs and ageing boomers for new tuition policy

By Roger Armstrong

As of May 1, 1999, all new senior students at the U of A (those aged 65 and over) will have to pay tuition. The Board of Governors voted in favor of abolishing fee remissions on the recommendation of the Board Finance and Property Committee. The new policy will not affect those currently taking classes for another two years.

The fee-remission policy dates back about 30 years. It was a source of community outreach and gesture of respect for seniors' life experiences. But in this age of higher education costs, the policy had to be revisited.

"In dealing with concerns of students in general, there was a sense within the administration it was a bit inappropriate to be obliged to increase fees for students in general, and then to single out one segment of the population and ask them not to pay any fees at all, or give them the option of not paying any fees at all," says Briar Silzer, associate vice-president and registrar. "A second concern, other than the inequity of that provision, is that as we go along here, there will be a larger and larger percentage of the population in the seniors' category," adds Silzer. Currently, there are five seniors enrolled in full-time studies and 28 in part-time studies at the University of Alberta.

Silzer says it's a step in the right direction, before aging baby boomers create a seniors' boom. Free classes for this age group in the future might put the U of A in a difficult financial situation. "Not

The university is not in a position to be providing anybody with a free education.

—Sheamus Murphy



Emily Rowan and Rae Ehrman: Now obliged to pay for U of A courses.

many businesses survive by providing free goods," he says.

Seventy-three-year-old Emily Rowan is grateful for the free education she had, which she says has changed her perspective on life. Rowan graduated with a BA from the U of A in 1994 and had her fees remitted from the time she turned 65. "I volunteer as a tutor for the Community Cultures Institute teaching English-as-a-

second-language. I probably wouldn't be able to do it if I hadn't taken [university classes]. I have an indebtedness to my community, because I was given this opportunity," says Rowan. In addition to many other volunteer activities, Rowan uses the knowledge she acquired during her studies in Slavic literature to help immigrants adjust to a new culture, language and life in Canada.

Rowan says the small number of seniors at the U of A are not imposing on the system. "It's just one more paper for the TA to scan," she says. "I would hate them to cancel it just because it's an inconvenience. And I am sure there are not that many who are taking advantage of it." Rowan is concerned some seniors will not be able to go to university if they have to pay full tuition.

"The 18-year-old is not paying 100 per cent for his or her education either. It is subsidized by generations past. If a student was to pay for everything they got on campus, it would be prohibitive. It is a social institution," adds Rowan.

The Students' Union president, Sheamus Murphy, is sympathetic to seniors and thinks it is an unfortunate but necessary step. "The university is not in a position to be providing anybody with a free education," he says. Murphy says it is a symptom of a bigger problem: lack of public support for the university. He is also concerned about the next student group having to pick up the shortfall.

Not all senior students took advantage of the free education. Some were not aware of it, like 71-year-old student, Rae Ehrman. She hasn't had any of her fees remitted but that hasn't stopped her from taking courses. Still, Ehrman says, "I think that it is very unfortunate if they have to [eliminate fee remissions]." In the meantime, she will look into remission of fees for the courses she plans to take in the next two years.

There is no real consensus on what other large institutions around the country are doing with this issue. UBC and U of C do not charge seniors tuition. McGill University charges seniors at a discount, while U of T charges regular fees but provides special bursaries for those seniors who cannot afford classes on their own. ■

Imperial Oil invests in education

Breathing life into science and math

By Geoff McMaster

Imperial Oil has donated \$1 million to towards a support centre in the Faculty of Education aimed at helping teachers in the classroom.

The Centre for Mathematics, Science and Technology Education (CMASTE) has already been running and "doing great things" on "a modest budget," says faculty development officer, Colleen Hawreluk. The centre produces classroom-support programs and materials — such as interactive CD-ROMs and teaching units — designed to make the subjects come alive for young students.

This latest infusion of funds, however, will take the newly named Imperial Oil National Centre for Mathematics, Science and Technology Education (IONCMASTE) to "a new national level." It will beef up some of

its more ambitious projects and provide a Web site where teachers and students from across the country can look up answers to math and science questions.

"We find often times that teachers get out into the school system and there isn't the time or the resources in the classroom to spend a lot of time coming up with really creative ideas," says Hawreluk. There are also those who have been in the classroom so long they've lost touch with advancements in scientific knowledge and technology, adds Hawreluk.

She says research shows children who are not properly initiated into math and science at a young age are less likely to take an interest in the subjects later in life.

"The most critical stage is the elementary stage, and I guess Imperial Oil understands that. They understand if they want to have top quality students coming out of the schools that eventually go to university and they eventually hire, they have to start in the school system...they want to make sure [students] get the best education they can get."

To encourage interest in science among elementary students, IONCMASTE has designed a "science simulations" series on CD-ROM allowing users to play with "what-if" scenarios. One example might allow stu-

dents to manipulate variables affecting depletion of the ozone layer. Another project will identify 30 beginning elementary science teachers who will work with faculty and with exemplary science teachers to hone their craft. In addition to becoming better teachers, participants will be encouraged to provide leadership to colleagues.

IONCMASTE is also involved in research designed to improve the education

of teachers. Such research would focus on a number of issues, says Hawreluk, from how boys and girls learn science and math differently to the impact of technology in the classroom.

"We believe we can make a difference," says Imperial Oil president and CEO, Bob Peterson. "[This gift is made] in support of the classroom teacher, where we believe the support must ultimately be made." ■



Dr. Elaine Simmt running a math workshop at Strathcona Composite High School.

UNIVERSITY OF ALBERTA CAMPAIGN

folio

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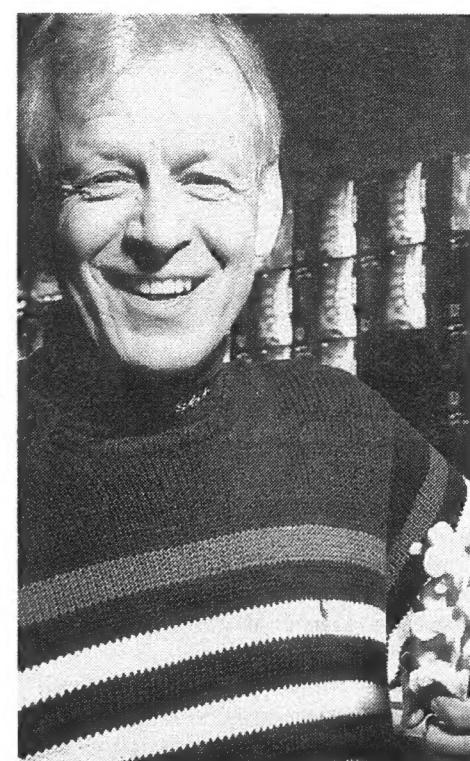
Volvo winners find genetic link to back injury

Considered revolution in spinal research

By Geoff McMaster

New research by two members of the Faculty of Rehabilitation Medicine is "causing people to rethink the whole area of back pain and spinal problems," says the faculty's dean, Dr. Albert Cook.

A paper just published by Drs. Tapio Videman and Michele Battie shows "disk degeneration may be, in large part, genetically influenced" rather than caused pri-



marily by strain or exertion. Back problems are regarded as the biggest concern "in terms of work-related injury for the general population," says Cook.

The research has again won Videman and Battie a Volvo Award from the International Society for the Study of the Lumbar Spine. For Videman, this 1998 Volvo is an unprecedented fifth award and for Battie, an unprecedented fourth. They are the only researchers to have won the award more than twice.

The pair's latest project — conducted with the help of four other colleagues including Leena Peltonen, director of the Human Genome project at UCLA — is a comprehensive study of 85 Finnish identical twin pairs raised in different environments.

It had long been assumed manual labor was the principal cause of back injury, says Videman. And yet, while work environments have improved over the past two decades with decreased physical demands and better ergonomic conditions, while people are exercising more and smoking less, and while cars are better designed than ever before, incidents of disk degeneration are steadily on the rise.

"Back pain is probably the most expensive disease affecting the working population," says Videman, "and no other disease group has grown so fast in the past 20 years." He says the number of patients

with back disability has increased in line with the number of rehabilitation institutes: "I think it is obvious — without jumping on anyone's toes — that we have all failed."

"Few treatments have been shown to have a clear effect beyond that explained by the natural history and placebo effect. While an industry has developed around back pain prevention, there are no interventions with a solid scientific basis and clear evidence of efficacy."

Evidence now indicates less than five per cent of intervertebral disc problems can be attributed to heavy work. Since the genetic material determining disk quality was identified about a year ago, it will now be possible to focus on other degenerative influences. Videman says the direction of future lower back research will likely shift to the interaction between heredity and environmental/behavioral risks.

"Now at least we can say why the past 25 years of prevention have failed," he says. But "there is light at the end of the tunnel," he adds.

"Identifying genetic determinants does not mean that we should become fatalistic. In fact, it is just the opposite. After we have identified important gene-environment interactions, it will be possible to identify those with 'weak' connective tissues and to direct appropriate interventions to those vulnerable individuals." ■

Research ethics 101

Learning the basics before signing the contract

By Geoff McMaster

With government funding of medical research falling seriously behind our competitors in the United States, the call of private money is a powerful one. Who can blame a university researcher for actively courting industry these days, especially when a company appears to have not only deep pockets but also a genuine interest in forging a working partnership?

As Dr. Joel Weiner, associate dean of medicine and dentistry (research), pointed out in a *Folio* article recently, such partnerships often result in the most dramatic breakthroughs of our time. Dr. Lorne Tyrrell's hepatitis B drug, for instance, was supported largely by the Glaxo Wellcome Heritage Research Institute, and there are countless other successful research contracts at the University of Alberta.

But what happens when a partnership doesn't run so smoothly, when corporations exert an influence not only in violation of the principles of academic freedom, but which might actually put human test subjects at risk? The example on everyone's mind lately is the Dr. Nancy Olivieri case at the Hospital for Sick Children in Toronto.

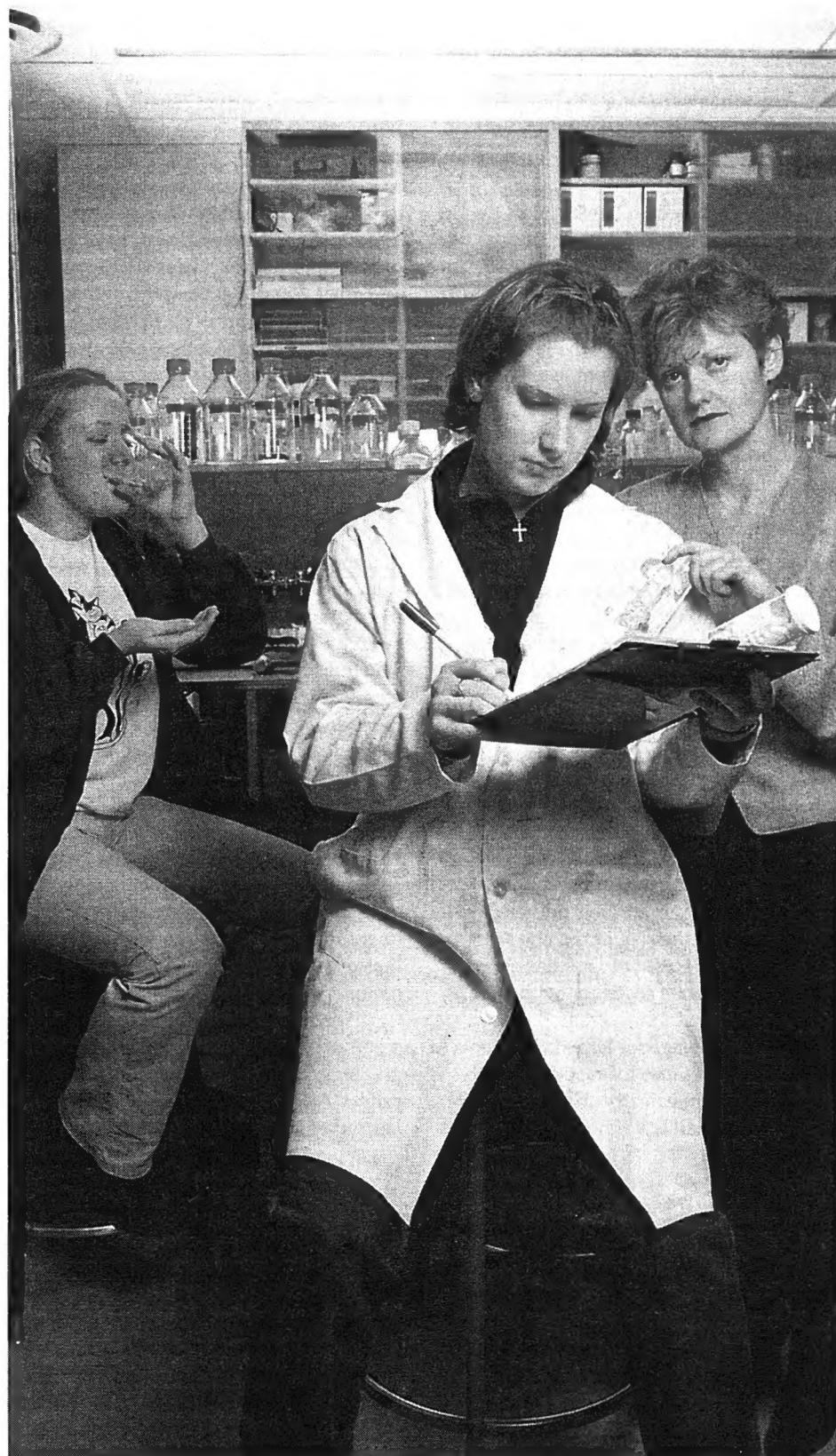
Without formal approval from the hospital, Olivieri signed a contract with the pharmaceutical company Apotex Inc. to run clinical trials for a drug called L1 or deferiprone. When she later discovered the drug may have harmful side effects, Apotex tried to prevent her from publishing the results. Olivieri's research team, the hospital and Apotex became embroiled in a complicated legal battle, with the players pointing fingers of blame at everyone but themselves.

Perhaps the most disturbing finding, however, of an independent review panel headed by Dr. Arnold Naimark of the University of Manitoba, was the case could not be dismissed as an exception to the rule, or simply the result of a bad mix of volatile personalities. The review found there may be "lessons for other institutions facing similar challenges."

At the University of Alberta, with more than 1,000 active clinical trials, administrators like Weiner are, for the most part, confident we have one of the finest ethics review processes in Canadian academia. But no matter how seemingly foolproof your protocol, there are no absolute guarantees against a researcher going astray, admits Dr. Ron Kratochvil, senior adviser for the vice-president (research and external affairs).

"You always have the possibility that a researcher may go ahead and do something without carrying out all the proper safeguards," says Kratochvil. "All we can do is when we learn about it, try to clean up ... If they have done something that's in violation of the regulations then we can take disciplinary action, but that's after the fact."

While Kratochvil says he is not aware of any serious ethical breaches among



Tina Chang

I'm not saying everything's fine. While 99 per cent of proposals end up being fine, it's not that percentage that don't need work. There are important issues that come up but they're unintended."

In addition to approval by a faculty ethics review committee, any project involving an industry partner has to pass through a resource allocation process and a contract review. For the university not to sign off on a contract between a researcher and a corporate investor, as happened in Olivieri's case, would simply never happen, says Weiner, at least not in his faculty. And the university would never agree to a confidentiality clause, he says, since its policy governing clinical trials clearly mandates "final analysis and interpretation of [resultant data] remain with the researchers" and it is the "researchers' duty to disseminate the analysis and interpretation of their results to the research community." Critical of media reports casting Olivieri as an unblemished champion of academic freedom, Weiner says the Naimark review demonstrates "there was blame on both sides."

"Clearly the hospital didn't enforce the regulations the way they should have. They didn't inform people that things existed the way they should have," says Weiner. But the review also found Olivieri in conflict of interest stating: "Policies on reporting external professional activities [in her department] appear to have been widely ignored."

"She did not get the university or the hospital to sign off on her contract which we would not allow here," says Weiner. "She did not inform the ethics committee of problems until a year later which we would not allow here."

However both Dr. Bill McBlain, associate vice-president (research), and Enzle argue casting pharmaceutical companies as the scapegoat in this scenario would be unfair, since most companies are as vigilant about proper ethical procedure as one could hope.

"Almost all companies are interested in getting the right results from their research," says McBlain, "and they are definitely interested in protecting their patients. They design the studies carefully. They make sure the information sheet and consent form for the patient are designed as well as they can, and they work with the researchers to get it

approved by the local research ethics board... We had one trial that didn't start here because there were some adverse events reported at other institutions, transmitted to us by the drug company. They were conscientious."

The bottom line, says McBlain, is regulations are only as good as people's knowledge of them. Pleading ignorance is no excuse, since every faculty has a policy clearly laid out.

Enzle agrees: "Ethics should always be on our minds as we're doing research, not the last thing we think of."

We hardly ever do
see big flamboyant
departures from good
ethical treatment of
human participants.
Don't get me wrong,
I'm not saying
everything's fine.

— Mike Enzle

researchers at the U of A in recent years, policy co-ordinator and ethics committee chairman Dr. Mike Enzle says examples do exist "but they precede current time."

"I've reviewed thousands of proposals for research, and I've only seen two in my entire career where I thought the individual meant to perform unethical acts that would put subjects at unreasonable risks," says Enzle. He says those cases were more than

In Enzle's view, there are enough checks and balances at the U of A to sort out any potential problems before research hits clinical trials. But he stresses the

principal reason for an ethics board is not to play the heavy. Board members are there to help researchers see potential problems they may not have considered in designing an experiment, not to pass judgements of character.

"Where ethical problems come from typically are unseen consequences of otherwise benign acts," he says. "We hardly ever do see big flamboyant departures from good ethical treatment of human participants. Don't get me wrong,

Ethics should
always be on our
minds as we're
doing research, not
the last thing we
think of.

— Mike Enzle

20 years ago, and as far as he knows, "the researchers did not look for another venue" after the projects were rejected by the ethics board.

Campus news briefs

appointments

INDUSTRY LIAISON OFFICE/RESEARCH TECHNOLOGY MANAGEMENT

Dr. Jim Murray has been promoted to senior associate vice-president (partnerships and innovation), effective April 1, 1999. In this new senior position, Murray will use his experience to work closely with President Rod Fraser on initiatives to further partnerships with key industry sectors aligned with the strategic objectives of the U of A and the province.

With the consolidation of the Industry Liaison Office (ILO) and RTM Inc., Dr. Peter Robertson, professor of civil and environmental engineering and associate dean, engineering, has been appointed by RTM's board as acting president of RTM, effective Jan. 1, 1999. Robertson will also succeed Murray as associate vice-president (research/industry relations) and director of the new ILO/RTM on April 1, 1999.

This consolidation will provide a continuum of technology-transfer activity as discoveries generated by professors and research associates move through the steps of intellectual property protection and patenting, licensing, proto-type development, business plan development, and the creation of spin-off companies. The consolidation provides for "one stop" shopping for University of Alberta activity and expertise in technology transfer.

Janice Rennie, RTM's first president, will continue to provide her expertise as a member of the ILO/RTM Board.

TECHNOLOGY PLANNING AND BUDGETS

Stephen Thornton has been appointed manager, technology planning and budgets, in Computing and Network Services. A graduate of the U of A's mining engineering program, Thornton is a long time employee of CNS, and was formerly the team leader of the Unix Technical Support group. Most recently, Thornton was a key player in negotiating the SunSITE agreement between Sun Microsystems and the University of Alberta. This management position will help develop long-term strategies for the information technology infrastructure across campus. ■

FACULTY OF LAW GETS A 'B' IN CANADIAN LAWYER SURVEY

U of A's Faculty of Law, along with nine other universities, including Dalhousie, McGill and York (Osgoode Hall), received a 'B' grade from *Canadian Lawyer's* annual survey of law-school graduates. The University of Calgary came first with A-, edging out U of T, which also received A-. University of Victoria came third with a B+. Overall, the U of A placed 11th out of the 19 schools included in the report.

Reaction from the dean, Lewis Klar, was mixed. "Obviously, I would like our law faculty to do as well as we can on these surveys. One thing we can learn from this survey is how the opinions of our graduates change over the years." On closer look at marks for individual categories, the Faculty of Law is doing well, says Klar.

The 1999 Canadian Law Schools Report Card surveyed graduates as far back as five years and received just more than 1,000 responses in total from across Canada. Survey categories included overall curriculum, quality of teaching faculty, overall percentage of caring and competent faculty members, quality of fellow students admitted, standards of testing, adequacy of facilities and technology and relevance of education to actual practice of law.

Over the past four years, Klar says U of A law alumni surveyed have been giving higher grades to several categories: curriculum assessment, faculty and practice relevance. And the number recommending their alma mater rose to 92 per cent this year, up from 91 last year and 74 per cent two years ago.

Where the U of A slipped in this year's report card is quality of students and facilities. "This is reflective of who they ask and when they went to law school," says Klar.

With Osgoode Hall placing 14th, Queen's 18th and UBC 19th, Klar says there's a strong correlation between what recent grads say about their university experience and the size of the law school. Currently the Faculty of Law has about 500 undergraduate students, with 26 full-time faculty.

"It is a challenge for large law schools to create the same sense [of rapport] – with professors and the dean – that you can establish with small law schools," adds Klar.

With larger law schools like Dalhousie, Osgoode, UBC and Queen's considered "peers" of the U of A, "We're doing relatively well among these universities."

There is no faculty input or data collecting for *Canadian Lawyer's* survey.

GFC REJECTS PROPOSAL TO KEEP 9-POINT GRADING SYSTEM

The U of A will be shopping around for a new grading system. In a decision that came as a surprise to some, the General Faculties Council voted this week to abolish the 9-point system currently applied at the U of A. Despite general support from many faculties, a task-force report recommending retention of the current grading system was rejected by a vote of 35 to 30.

"The hard decision was not whether you like the 9-point grading system," says Dr. Anne Marie Decore, associate vice-president (academic), "but what you do like and what you can get enough agreement on. So the hard part is yet to come."

The council will investigate systems more compatible with other post-secondary institutions — such as percentages, letter grades, or a 4-point system — even though the report concluded there is no suitable alternative used by most Canadian universities, students "don't appear to be disadvantaged in award or job competitions" by the 9-point system and the cost of a new system would delay implementation of OASIS (the new computer system for student records). The report also found while the grading issue "generated lively debate in some faculties ... there does not appear to be a strong groundswell of support for changing our grading system."

But the head of the Graduate Students' Association, Kim Speers, says she's pleased with the decision. She argues the system creates confusion on a number of levels, especially when students transfer or apply to graduate programs at other universities. It also does not allow for enough discrimination in student performance, she says.

"The thing that really bothers me is computers driving policy. I think there is a greater good out there, and it's not computers. As a university we took a stance yesterday and went for the greater good."

U OF A RANKS THIRD IN MRC GRANTS

The Faculty of Medicine and Dentistry has been awarded a total of \$9.8 million in operating and equipment grants from the Medical Research Council of Canada, ranking it third in the country, after U of T and McGill, in this latest competition. The council last week announced distribution of \$108 million over five years for operating expenses, equipment and clinical trials related to health research.

"This is a very positive outcome, and extremely reassuring for our researchers," says Dr. Bill McBlain associate vice-president (research). "It's a further endorsement of our strengths in biomedical and related research." He says one reason for the success of researchers in this area has been the long-term support of the Alberta Heritage Foundation for Medical Research.

BOARD APPROVES TUITION INCREASE

Students will pay more to attend the University of Alberta next year. At its last meeting, the Board of Governors voted to raise tuition by 6.7 per cent.

While the decision came as no surprise, student leaders condemned the trend towards restricted access to post-secondary education. The Students' Union president, Sheamus Murphy, said although the increase is lower than the 8.3 per cent allowable under provincial guidelines, it is "still too high for us to accept." About 30 students showed up at the meeting to demonstrate their disapproval, some carrying placards.

The 6.7 per cent increase represents about \$223 over the current base tuition fee of \$3,328, about \$50 short of the 8.3 per cent cap (or 30 per cent of the operation costs of post-secondary education). Tuition has more than doubled since 1991.

VP (academic) and provost, Dr. Doug Owram, while supporting the increase, echoed student concerns society is fast approaching a world where "only the rich go to university." On a more positive note, board chairman Eric Newell said this is the first time the university has approved an increase under the maximum allowable, but a raise of 6.7 per cent was necessary to avoid a budget deficit. Even with the extra revenue, he said, the university will still have to dip dangerously into reserves.

TECHNOLOGY TRAINING CENTRE IN FULL OPERATION

More technology means more training. And the U of A is set up to provide this service right on campus.

The Technology Training Centre officially opened its doors Jan. 20. Three labs, complete with more than 50 computers, are available for faculty, staff and students in a variety of courses, from Windows 95, Internet and Microsoft programs to Prolite, Basic and Oracle.

Dr. Doug Owram, vice-president academic and provost, said: "There's been a tremendous recognition about the power and potential of technology." The challenge, however, lies in getting more than the "enthusiasts" involved.

"We have to get the average professor to start learning the technology... then we have to link the technological skills to the pedagogical skills. Teaching with this technology is not the same as it is in the lecture environment."

Accordingly, the centre has courses designed for the "totally terrified" up to advanced. Courses have been ongoing for about six months and more than 2400 have participated so far. For further information, view: www.ualberta.ca/training, or call extension 1397. ■

There is only one VizRoom in Canada – and it's at the U of A

By Roger Armstrong

The Department of Computing Science has a new toy that would make any 10-year-old Nintendo addict weak in the knees with excitement, but it also has far-reaching business and research applications. The 'VizRoom' is a 9.5 by 9.5-foot room with three projection screens for walls exhibiting one continuous image. The image becomes 3-D once special glasses are worn. Add in a tracking system to adjust the image as you move around, and you have the VizRoom.

"In some senses, you are playing games but games are big business now," says computing science professor, Dr. Mark Green. "The computer game market is the largest segment of the entertainment market now. If your computer science department isn't playing games, you better ask them why."

— Mark Green

says Green. More important, "It also raises the multimedia profile of Edmonton."

Green, along with colleague Dr. Ben Watson, developed software and custom-built the unique VizRoom at the U of A over the past six months with funding from an NSERC Major Installation Grant.

But games are not the only application of this technology by any means. Watson is using this new technology to investigate way finding (how people find their way around). Watson is collaborating with the Department of Psychology to determine how to help people who get lost find their way back. This research will have applications in police work, fire-fighting and the military. There are also applications of this technology in the treatment of psychological conditions such as acrophobia (fear of heights).

Oil companies can use the VizRoom to analyze seismic data. Companies in the U.S. are already using this technology, but firms in Calgary cannot afford it, says Green. He has already received inquiries from companies wanting access to the technology.

Green is considering spinning this off as local technology. The VizRoom costs half a million dollars to make, but Green is thinking of a scaled down version for commercial use. He wants to make a \$100,000 unit that will be more affordable. Green hopes more universities, museums and science centres will purchase these rooms to give the public greater access.

"We are trying to convince people on campus to use this," says Green. He anticipates engineering, physics, mathematical sciences, renewable resources and other fields will want to use the new equipment to generate images and see things in ways they were never able to before. ■

On academics writing "gobbledygook"...

By Dr. Jo-Ann Wallace, chair, Department of English

Earlier this month the academic journal *Philosophy and Literature* released the winners of its fourth annual Bad Writing Contest, a contest which "celebrates the most stylistically lamentable passages found in scholarly books and articles published in the last few years." The winners for 1998 were, in the words of the journal's press release, "two of the most popular and influential literary scholars in the U.S." Judith Butler, professor of rhetoric and comparative literature at the University of California at Berkeley, and Homi Bhabha, professor of English at the University of Chicago. Columnists in at least two of Canada's leading newspapers subsequently decried the "obscurantism" and "obfuscation" of current research in the humanities.

There is nothing really new in this. For the past decade or more — at least since the 1988 publication of Allan Bloom's *The Closing of the American Mind* — research in the humanities which takes up questions of gender, race, sexual orientation, or colonialism, or is influenced by poststructuralist theory, has excited a fair bit of media vitriol and hilarity. How is it that research in the humanities, presumably until then the preserve of ineffective tweedy types, became suddenly not only newsworthy but even *scandalous*? When did self-professedly conservative humanists start writing such irresistible press releases, replete with sound bites?

Is it only serendipity that, in the same week *Philosophy and Literature* issued its contest results, "Mr. Blackwell," fashion's man-with-no-first-name, released his 39th Annual List of Worst Dressed Women? The top two winners of Blackwell's contest were Linda Tripp ("Linda's bad fashion 'tripp' is beyond debate she looks like a sheepdog in drag, the 'Starr' of her very own 'Stylegate'!") and Madonna ("Mama Madonna has become a Neo Gothic fright, a glitzy gargoyle searching for a 'Ray of Fashion Light'!"). Like Butler and Bhabha, Tripp and Madonna offend against style. I think most of us understand what Blackwell means by style but what is appropriate academic style? If Butler and Bhabha write "stylistically lamentable" books and articles, what does stylistically laudable humanities research look like?

Presumably it looks like the research published in *Philosophy and Literature* which describes its mandate as "challeng[ing] the cant and pretensions of academic priesthoods by publishing an assortment of lively, wideranging essays, notes, and reviews that are written in clear, jargonfree prose." Its editor "targets the fashions and inanities of contemporary intellectual life" in a regular column. In other words, *Philosophy and Literature* publishes work which is stylish rather than merely fashionable, elegant rather than excessive — a kind of intellectual basic black with pearls.

Appearances, however, can be deceiving and clear prose is as handy a vehicle for misrepresentation as the "pretentious, turgid academic prose" the journal finds so deplorable. In its latest issue, for example (October 1998),

Philosophy and Literature published "Queries for Postcolonial Studies" by the well-regarded critic Ihab Hassan. Hassan caricatures postcolonial and other poststructuralist intellectuals by relating a "tribal" history whereby the New Critics of the 1940s and 1950s are overthrown by the phenomenologists and structuralists of the 1960s, who in turn are superseded by the deconstructionists of the 1970s and 1980s. Finally, in this self-heroizing myth of self-becoming, "feminist, ethnic, postcolonial, and cultural studies came to the rescue." The point Hassan wants to make is "a self-congratulatory myth of progress informs criticism in the era of cultural wars."

Hassan's prose is clear but he uses it to misrepresent, by oversimplifying, a 50-year history of literary and cultural criticism. He also uses it to accuse postcolonial and poststructuralist critics of "tribal" self-interest, another term for what the editor of *Philosophy and Literature* calls "academic priesthoods." A recent column in the *Edmonton Journal* makes a similar point. The columnist asks "Why do so many academics write such gobbledegook?" and she suggests "in part, it's simple snobbery. By writing in a complex language only specialists can understand, they exclude the rest of us."

This is to impugn a very odd motive to humanities researchers. Unlike mathematicians, say, who use symbols only specialists can understand because those symbols represent complex and abstract ideas efficiently, humanists use complex language in order to mystify the general public. The truth is, many scholars in the humanities are drawn to these paradigms and schools of thought — deconstruction, feminism, postcolonialism — not because they carry the dazzling allure of obfuscating complexity, but because they are explanatory. These schools of thought help us answer certain kinds of questions which seem to us important now.

The New Criticism, which replaced an older, simpler literary history model, helped to answer a specific set of historically contingent questions: What is the function of poetry in a changing world, a world in which global warfare is omnipresent? How does poetry create its effects and what is the social use of those effects? Deconstruction, feminism, postcolonialism help us answer a different set of questions which grow out of a postindustrial, global world economy: Who participates in meaning-making? What "counts" as literature or art and how does it circulate? And, just as the New Critics' emphasis on prosody and ambiguity seemed like gobbledegook to many of us who struggled with it as undergraduates, so the new languages of criticism seem prohibitive to many readers today.

The humanities have been on the political and media hot seat for more than a decade, and in ways other academic disciplines have not. While this can be unsettling, it can also be useful. It is no bad thing to rehearse, for ourselves and for the broader public, where we are and how we got here. As Francis Bacon pointed out in 1605, such a rehearsal "will make learned men wise in the use and administration of learning." Women, too. ■

...And who gets credit for the writing

By Dr. Mark Dale, dean, Faculty of Graduate Studies and Research and Dr. Bill McBlain, associate vice-president (research)

Has this ever happened to you? A master's student, Jane Doe (not her real name), was asked by the departmental secretary to return some typing to Jane's supervisor, Professor Airmiles. Glancing at the page, Jane noticed it contained an abstract for an upcoming conference in Honolulu and, on her "second take," noticed the title was that of Jane's thesis project. Jane's name did not appear on the abstract but some of the results reported therein were from her work.

The above fictional (really!) scenario is presented as a means of introducing the question of authorship, especially as it may apply to graduate students (or research associates or post-doctoral fellows). In reality, this article could end here with reference to section 7.6 (Intellectual Property Policies — Guidelines for Authorship) of the research policies and services manual to be found at: www.ualberta.ca/~univhall/vp/vprea/re_ser/repol176.htm. This Web site makes further reference to other authorship issues described in the *University of Alberta Research and Scholarship Integrity Policy* to be found in section 96 of the General Faculties Council policy manual at: www.ualberta.ca/~unisecr/policy/sec96.html#2.

However, it is probably a healthy sign and safe assumption that most graduate students do not routinely review the various University of Alberta policy documents. Hence, it is worthwhile to mention there are at least three points which might have been helpful to Jane. Let's take a look at them.

There are three key criteria generally accepted for authorship and they are (see first reference, above): 1) All authors should have made a substantial contribution to the conception, design, analysis, or interpretation of data; 2) They should have been involved in writing and revising the manuscript for intellectual content; and 3) They should have approved the final draft and be able to defend the published paper.

In alignment with the above points, departments are encouraged to establish their own guidelines because it is not possible to have a firm policy governing all disciplines. Departments should communicate such accepted guidelines and practices for authorship to staff and students. For example, in the case of research involving graduate students, it could be recommended that supervisors discuss aspects of authorship at the outset of the student's program. Such discussions could include the topics of criteria for authorship, order of authors, and the timing of the publication of findings from the thesis research.

Equally important, graduate students should not strictly rely on their department or supervisor to furnish information or to ensure guidelines and policies are observed. The departmental graduate student coordinator and/or senior graduate students represent a source of guidance and assistance. Additionally, the Graduate Students' Association and departmental graduate student organizations could provide an orientation for new graduate students and include a briefing regarding this issue. ■

folio letters to the editor

The Jan. 15 article, "Graduate school: There's no life like it," serves an important function in illuminating some potential stresses of graduate school. As one of several students who took part in an informal discussion with Folio acting managing editor, Lucianna Cicciocippo, in preparation for the piece, I should like to make some further comment.

Occasioned by the unfortunate suicide of a graduate student at Harvard, Cicciocippo's article is understandably focused on the difficulties of student life. In consequence, however, it presents a bleak view: graduate students are portrayed as the potential victims of poverty, subordination and exploitation. They are troubled by isolation and, in some instances, the prospect of unemployment at the end of it all. It is not my intent to contradict what is the experience of many, but I do wish to draw attention to the other side of the coin: study at the graduate level can be a rewarding time of achievement and intellectual exploration during which one is privileged to work and to learn alongside distinguished scholars.

For my own part, I have been impressed by the intellectual and financial

support I have received from the University of Alberta. Although I have at times experienced difficulty — as one does in the pursuit of anything worthwhile — I have also been blessed with excellent supervision at both the master's and the doctoral level, and with the unwavering support of the office staff, the administration and the faculty of both departments in which I have studied at this university. In particular, the academic excellence and the generosity of my past and present supervisors, James Forrest, professor emeritus of English, David Miall, professor of English and Max van Manen, professor of secondary education, has exceeded all expectation.

On behalf of the undergraduate and graduate students of the University of Alberta, my thanks go now to those very many people in this institution who treat their students with dignity and tact, and who, in doing so, make success possible even in the face of adversity.

Teresa Dobson
Doctoral Candidate (Interdisciplinary)
Departments of English and Secondary Education

Cree dictionary 25 years in the making

By Geoff McMaster

When a language dies, a nation dies." So begins the forward to the *Alberta Elders' Cree Dictionary*. Only a few decades ago, Cree was in danger of extinction after many residential schools forbade its use. Today, however, young people in Canada's Cree community are trying to rediscover their linguistic heritage. About 25,000 people across the country now speak Cree in varying degrees of fluency.

The Cree people in northern Alberta are the largest aboriginal language group in the province. This latest dictionary just released by U of A Press, although certainly not the first published repository of Cree, may go a long way to preserving and expanding one of Canada's oldest tongues, says editor and religious studies professor, Dr. Earle Waugh.

"We hope that it will kick-start a kind of formal educational policy, that it will become a standard language learned in Alberta," says Waugh. "Eventually I would hope whites as well as Cree would find this a wonderful language to learn. It's wonderfully explicit – it depicts things in pictures. What Cree tries to do is give you a kind of snapshot of something."

Waugh began overseeing the project 25 years ago at the instigation of Sister Nancy LeClaire, a Samson Cree from Hobbema who had a passion for keeping her language alive. When she died in 1986, after getting as far as the letter "N" of the Cree/English section, Waugh asked elder George Cardinal, now 78, to finish LeClaire's work and translate most of the English dictionary into Cree.

Growing up in a small northern Alberta community called Wabasca, Cardinal managed to escape the scourge of residential schools. In fact he was taught Cree by a Catholic priest who learned the language to help young Cree preserve their culture.

Cardinal hadn't spoken Cree on a regular basis for years when he joined Waugh's team. The elder jumped at the chance to help out, "for one simple reason," he says. "I was going to help out with my native culture." He was also aided by a number of Cree students from the U of A, including Ray Cardinal, Nicole Martell, Lorna L'Hirondelle and Sage Cardinal.

Using Father Albert Lacombe's *Dictionnaire de la Langue Crise* as a place to begin, LeClaire had originally incorporated a combination of five dialects in compiling the dictionary's words and phrases, although most entries are drawn from the Northern and Plains variations.

Since more recent words and expressions are not yet written in stone, Cardinal

We hope that it will kick-start a kind of formal educational policy, that it will become a standard language learned in Alberta.

— Earle Waugh



The cover of the Alberta Elders' Cree Dictionary features a painting by artist and U of A alumna, Jane Ash Poitras.

openly admits to improvising. Take 'video lottery terminal,' for instance. "I had to describe it as 'a machine that spits out money,'" says Cardinal. "But somebody told me it doesn't always spit out money." He laughs: "Maybe it would have been better if I said, 'The machine that takes all the money.'"

Another example is 'cell-phone.' Cree translation: "Speech that you pack around with you."

— George Cardinal

Another example is 'cell-phone.' Cree translation: "Speech that you pack around with you."

The dictionary includes about 22 different words for snow and 13 words for

moose — reflecting the experience of northern communities — but only one word for car, literally translated as "stinking machine." Distinctions between types of vehicles don't exist, at least not yet.

As with any language, the structure of Cree reflects the way its people see the world. "Cree is non-gendered," says Waugh, "so you don't say, 'he sits down, or she sits down.' Basically you say, 'a person sits down'... In effect Cree is quite up to date in terms of its gender consciousness. Conceptually it doesn't sit the same in their culture the way it does for us, because [with English] the relationships between sexes has been culturally fixed by the Christian context."

There is also no word for guilt in Cree. "Legal people asked us to consider the problems that this raised," says Waugh. "Because the whole concept of guilt in the Western legal tradition comes out of Christian notions of the soul."

To get around this sticky problem, Waugh includes a legal oath in an appendix. To plead guilty, a Cree speaker would say, "niyakatotaman," which means "I am responsible for doing it." Not exactly the same thing, but arguably in the ballpark.

With any project of this size and scope, however, and whenever one is dealing with a living language, there will inevitably be the odd errors, omissions and controversial translations. Waugh therefore welcomes input from the Cree people for subsequent additions. He is already planning a multi-media CD-ROM as a companion to the dictionary. All royalties from the projects will go towards Cree educational programs. ■

Helping the elderly stay active

Physical education prof studies exercise and healthy aging

By Geoff McMaster

For Dr. Sandra O'Brien Cousins, one question drives her research more than any other: Why do so many elderly people have such a profound aversion to physical activity? What would prompt a woman in all seriousness to confess, as one did to Cousins last year, "I hope I don't have a stroke because then I'd have to exercise"?

In two recent books, *Exercise, Aging and Health* and *Active Living Among the Elderly* (both published by Brunner/Mazel, the latter co-authored with Dr. Tammy Horne of WellQuest Consulting),

the professor of physical education explores the barriers to exercise among the elderly and the benefits of staying active. Reviewing more than 1,500 studies relating to the subject between 1990 and 1994, she says there's little doubt inactivity in old age is at least as harmful as smoking.

"If you're not very active, essentially you're aging twice as fast as nature intended," she says. A sedentary life poses a high risk of disability or early death, whereas exercising as much as 20 minutes most days of the week can be the "best medicine for many of the ills of old age."

A black and white photograph of a woman with glasses and a dark sweater, smiling and demonstrating a light fitness routine. She is holding a small dumbbell in each hand and is in a crouched position, possibly performing lunges or a similar exercise. The background is a plain wall.

Convincing older people to take a walk or step onto the treadmill, however, can be like pulling teeth, since the perceived dangers of doing so are often greatly exaggerated. "They conjure up all these outrageous ideas... especially the women come up with these very ingenious, creative beliefs about risk, like their heart will explode if they do a certain kind of curl or something."

Cousins says it's mainly elderly women who pay the price for a sedentary life, which can lead to osteoporosis and severe arthritis among other ailments. Despite the fact women live longer than men, about half end up in nursing homes, compared to about 20 per cent of men.

"And it's not because they've got Alzheimer's or dementia — they're weak, bent over like caged animals," she says. "Physical activity could help them enjoy a more resilient, robust, higher quality of life."

Cousins has seen enough success stories to know. She recalls one woman at a local nursing home who lacked the strength to do her hair or even raise her hands above her head. Her loss of self-esteem and subsequent slide into depression were heartbreaking to watch, says Cousins.

Within a few weeks of lifting very small, one-pound weights, however, the woman rapidly regained her strength. "She started doing her hair again and it changed her life. It was the best thing that happened to her in a long time."

Ironically it too often takes a traumatic event such as a stroke or heart attack, the

very dangers exercise can prevent, to make a persuasive case for staying active.

Cousins has found the best way to encourage older people to exercise is to completely avoid references to sweating or breathing hard. And above all, don't even mention the heart, she says. It will only "feed into their internal dialogue," a vicious cycle of negativity that seizes upon any excuse, ending in defeat and resignation. It's always better to simply promote the pleasure principle, but even there, Cousins runs up against opposition.

"With that generation, there's a lot of historical baggage they're bringing from the depression... If you're going to be physically active [they believe], you might as well do something productive. They don't see having a whale of a good time at a square dance as being a productive way to spend your energy."

It's not just the aging who need an attitude check, however. Family members and even physicians have to be educated about encouraging the elderly to exercise. Sons and daughters, for example, who insist on carrying bags for their aging mothers and fathers may not be helping them out in the long run.

"Let her carry her groceries, if she's willing to do that," says Cousins. If she's not at risk, the load will only keep her strong. The benefits of even moderate, regular exercise "go on and on," she says. "There's no function of your body that doesn't benefit... even your skin." ■

A resident of Pioneer Place (subsidized apartments for seniors in Edmonton's inner city) demonstrates her light fitness routine.

Agriculture in his blood

Roy T. Berg (1927 –)

By Geoff McMaster

The scene is familiar to every western Canadian — endless pastures full of cattle, wheat fields disappearing into the horizon under the biggest sky anywhere on earth. But something on the Alberta prairie has changed radically in the last 30 years, owing in no small measure to Dr. Roy Berg's pioneering research in animal genetics. Look more closely, and you'll see the cows that today dot the landscape are a kaleidoscope of color rather than the uniform hues of yesterday. Put simply, this changing palette has meant better beef, and more of it.

You might say Berg, who was raised on a farm near Millicent, Alta., has agriculture in his blood. He was the third of four brothers to study agriculture at the University of Alberta. Since Berg's graduation in 1950, 14 more family members from two generations have followed in his footsteps. Counting siblings, spouses and offspring, a total of 34 Bergs have degrees from the U of A; at this year's Alumni Association celebration of U of A families, the Berg family had the most members in attendance at 29.

Berg's strong ties with the rural community have, he admits, helped greatly in building bridges between the ivory tower and the farming industry. "You have to have some friends out there, because if there's no one listening to you, you have no impact," he says. "You could do your research and demonstrate some things, but

if you haven't got an audience then nothing will happen. It'll get in the scientific literature, and that's where it'll stay."

Convincing a "conservative industry" to adopt his methods, however, was anything but easy. After completing his master's and doctoral degrees in animal genetics at the University of Minnesota, Berg returned to the U of A as an assistant professor in 1955. In 1960 he established the university's Kinsella Ranch in eastcentral Alberta and went on to show how selective cross-breeding — passing on the superior traits from a large number of breeds — could improve production by 30 to 40 per cent.

Despite the success of research at Kinsella, however, traditional pure-breeders remained steadfastly opposed

to the idea of mixing breeds to produce synthetic strains. It took Berg a good 10 to 15 years of carefully controlled crossbreeding to sway industry insiders.

"At that time when he started, everyone was laughing at him," says Dr. Mac Makarechian, who worked with Berg at Kinsella. "And many producers opposed him really furiously. The pure-breeders were so strong, and believed in their breed so enthusiastically, that they thought if they mixed [breeds], everything would be destroyed."

Most of Berg's crossbreeding techniques gradually became the norm in commercial breeding, winning him induction into the Alberta Agriculture Hall of Fame



Dr. Roy Berg

and the International Stockman's Hall of Fame in Houston, Tex. At Kinsella he managed to produce double-muscled steers with 50 per cent lean muscle tissue by live weight, compared to the average 35 per cent in the standard breeds.

What sets Berg apart from many in his line of work is an ability to communicate with persuasive force. He was known as a maverick who took risks, refused to be intimidated and told it "like it was." In a 1989 *Folio* article, he was described as "a fearless critic of conservative thought in teaching and research at the university, and in agricultural practice outside."

"I had colleagues in other institutions saying, 'You shouldn't be spouting off

like that or you're going to get in trouble.' But I couldn't help it," says Berg. "I never had sense enough to realize this was a danger."

If you ask Berg, he'll tell you he made his greatest impact on Alberta agriculture in the classroom, especially through extension courses that disseminated new research quickly through the agricultural community. From his earliest days as a sessional instructor, Berg always put independent research and critical thinking ahead of simply absorbing information. He graded students on presentations and extensive takehome papers, dispensing with sitdown exams. It was a controversial approach in those days, but his students thrived on it.

As chair of the Department of Animal Science (1977–1982) and dean of the Faculty of Agriculture and Forestry (1983–1988), he promoted the development of an entrepreneurial spirit in students: "... that desire to be one who does things rather than having someone else tell you what to do all the time."

Since retiring in 1988, Berg, who lives in the parkland area east of Edmonton, has turned his efforts to environmental preservation. He is currently chair of the Beaverhill Lake Stakeholders Advisory Council, as well as a member of the advisory committee of the Ministik Lake Bird Sanctuary, and has been chair of the Beaverhill Lake Nature Centre in Tofield. He has also been a trustee of the Western Heritage Centre in Cochrane and currently serves on the Town of Tofield Economic Development Committee. ■

Water, water everywhere ...

Killam professor immerses himself in his work

By Phoebe Dey

Dr. David Chanasyk can't get away from his work. When he's shoveling snow, he's researching. When he's drinking water, he's experimenting. When he's gardening, he's putting his years of knowledge to the test.

Chanasyk, a recent Killam Annual Professorship recipient and professor in the Department of Renewable Resources, researches the soil and water area of agricultural engineering.

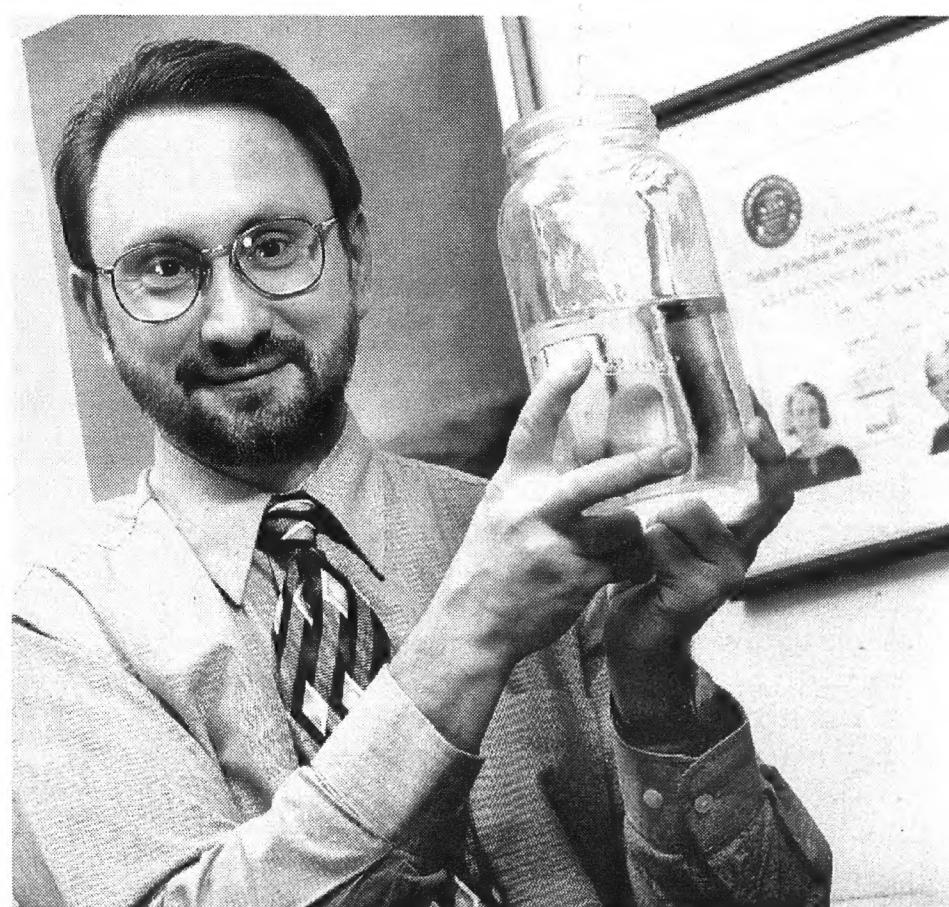
During more than 20 years of teaching, research and administration, his work has covered a broad range including soil physics, irrigation and hydrology, drainage and water resource management.

Studying the 'how' and 'why' of management practices is what interested Chanasyk in soil and water early on.

"One of the most interesting aspects of my work is community transfer," he said. "Taking my results to extension people in the university as well as farmers and helping them understand their practices and what effects their choices have on the land is exciting."

Chanasyk cannot remember a time when water did not play an important role in his life. He has crystal-clear memories of a fascination with water while growing up on his family farm north of Vermilion. The attraction started during the spring melt and flowed throughout the summer and fall until the snow arrived, he said. With a hoe or shovel in tow, the young boy would create paths and gullies and watch the water drain and flow through the Alberta plain.

The magnetic liquid charmed him throughout his bachelor of science studies at the U of A.



Killam professor Dr. David Chanasyk lives, breathes and dreams water.

"In my first term of my fourth undergraduate year I took a hydrology course and it just pulled everything together," he said. "The lights went on and I said 'Yes, this is what I want to do.'"

Since hydrology has applications in many disciplines, Chanasyk limited his master of science from University of Sas-

atchewan to the field of agricultural engineering and returned to the U of A to complete his PhD in hydrology.

He made the right choice.

Some of his achievements include a stint as associate dean of the Faculty of Agriculture, Forestry and Home Economics, serving on a Natural Sciences and En-



gineering Research Council grant selection committee and receiving the Alberta Institute of Agrologists' Distinguished Agrologist Award in 1996.

Looking back on a career that's far from over, Chanasyk names several highlights.

"One thing I have enjoyed is the satisfaction of knowing people in the Prairies, especially in Alberta, would identify me as an individual with expertise in water," said Chanasyk who has created undergraduate and graduate courses for his faculty. "People are calling me with issues related to water and I am able to help."

Sitting as the academic/professional representative on the Water Management Review Committee to review the proposed Water Act in 1994 was also a rewarding experience for Chanasyk. Because of documents like the Water Act, mechanisms are now in place to allow people to address issues before crises occur, he said.

When he's not persuading students about the importance of water in everyday life, the long time professor absorbs the outdoors and dreams of the ocean he is too busy to visit.

"That's what pictures and postcards are for," he laughed. "The most difficult part of my job is balance. I love working for the U of A and in a great faculty and department but with so many opportunities and chances to learn, it's a matter of maintaining focus and not having to do it all. It's a pleasant difficulty, if there is such a thing, because enjoying your work is important." ■

Spotlight on U of A apparel designs

Human ecology professor and grad student land international awards

By Lucianna Ciccocioppo



Richard Siemens

Look out London. Move over Milan. Intricate, creative apparel designs by the U of A's Linda Capjack and Pam Bailey, Department of Human Ecology, received two thumbs up recently at a juried competition in Dallas, Tex.

Their wearable art received awards from the International Textile and Apparel Association, the first time a faculty member and graduate student were both winners at the event.

It's not meant to be wearable.
It's advertising.
It's impractical but that's how we learn and grow.
— Pam Bailey

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Because of the quality of garments being accepted, it's an honor just to be accepted but to actually win is very exciting," said Capjack, associate professor. Out of 47 faculty entries from around the world, 30 were accepted and from 155 graduate entries, 58 were invited to attend. (U of A undergraduate student, Nicole Wahl, was also invited to submit an entry.)

Capjack entered a sage green, raw silk, formal woman's jacket and skirt. After about 100 hours of labor-intensive stitching and 3/4 of a mile of thread, "I got fed up and told myself, 'This really is for the birds,'" laughed Capjack.

Hence, her title: *For the Birds*.

Using an ancient, quilting technique called *trapunto*, she created bird images on the jacket. It required a backing fabric and fibre fill underneath the silk material. Stitching bird designs around it, with additional padding in between, created a raised effect. Wings were stitched through the layers and, to cap it off, beaded eyes brought the small birds to life. In addition, *stippling* filled the silk background to give texture with its maze of stitches that never cross over, said Capjack. The unquilted skirt is cocktail length and complemented with a side-front pleat.

"I've always been interested in fabric manipulation and techniques to create

wearable art," said Capjack. It was her love of bird-watching that inspired the winning design. Now, she has to find an appropriate event to wear it to. "I need another daughter to get married. Maybe I'll wear it at the upcoming open house in the department."

Obviously, such a work is one of a kind — a haute couture of human ecology, if you will. Capjack can't put a price tag on it but said it would rank with high-end boutique ware. When she's not thinking of her next creative design, Capjack conducts

flammability studies and researches protective clothing.

On the opposite side of the spectrum is the futuristic work of Pam Bailey, graduate student. *Cables and Corset* is an avant-garde look at the future of fashion.

— Linda Capjack

After about 100 hours of labor-intensive stitching and 3/4 of a mile of thread, "I got fed up and told myself, 'This really is for the birds.'

— Linda Capjack

theme of metamorphosis. "I wanted to explore that. It's not a direct interpretation of metamorphosis but more about the approach of the millennium, about how we're going to bloom," said Bailey.

She created a design based on paradoxes and shock value, mixing vibrant colors: yellow, purple and red. Traditional vestiges of an older era — a hoop skirt and corset — were juxtaposed with stretch-velvet, long, flowing pants, sewn to look like a skirt. A trailing cape

includes a disproportionately short jacket and long sleeves knitted together at the hand-opening, providing a cocoon effect, explained Bailey.

Trying to come up with creative ideas can be difficult but so can deciding upon a finished product. "You never know when to stop," said Bailey, who wishes, ideally, to be a textile artist. "I enjoy making pieces like this." But she plans on working in industry, in garment design or merchandising, after completing her master's degree.

Designs such as *Cables and Corset* add to her portfolio and provide a sample of her creativity. "It's not meant to be wearable. It's advertising. It's impractical but that's how we learn and grow," added Bailey. Still, there's always a marketable side to wild designs, she explained. She can change the corset and pants and tone down the sweater while keeping the main elements of stitch and color.

It's a learning process. "It's interesting to get feedback because you have three judges that love the design and two that just hate it." ■



Department of Human Ecology's Linda Capjack, right, and graduate student, Pam Bailey, winners of International Textile and Apparel Association awards.

Richard Siemens

Artful Giving

Alumnus donates work for native studies' silent auction

By Phoebe Dey

Clayton Kootenay doesn't care that his pieces are displayed in homes of dignitaries, politicians and famous athletes all over the world. All that matters to the U of A graduate is appreciation for his work.

Kootenay, a part-time sculptor who received his bachelor of arts in native studies in 1997, has seen his art presented to Premier Ralph Klein, the president of China and former Edmonton Oilers, Randy Gregg and Kevin Lowe. Now he will give a special art piece to his alma mater.

To celebrate its 10th anniversary, the School of Native Studies is holding a silent art auction on Feb. 28 to raise money for a Students' Excellence Fund. The fund will

help cover transportation costs for community-based research.

Kootenay can't think of a better way to say thanks.

"My piece is named *All My Relations* which is very appropriate for the 10th anniversary and an overall theme for the school," said Kootenay, 27. "The atmosphere there was very much like home, like an extended family which made university life just a little bit easier."

The sculpture is carved from imported Brazilian soapstone and depicts three faces with a scene of birds and other animals fading into the background. While all of his pieces vary, his motivation is almost always the same.

"A lot of inspiration comes from nature or anything that moves... snow drifts or lines that form from wind," he said.

Kootenay also remembers the wise words of a famous artist each time he sits down to carve. When he was attending Victoria Composite High School, he researched Michelangelo.

The 16th-century painter said the image is already there in the stone, canvas or wood and artists are just there to make it more apparent. The same theme runs throughout native tradition, said Kootenay.

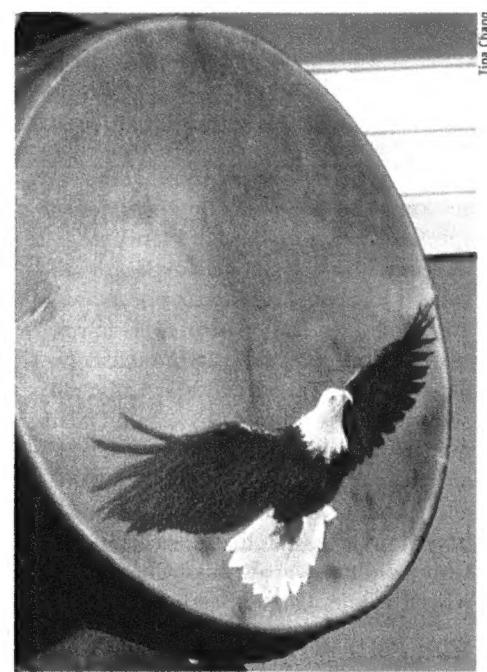
"In our culture we believe stone is alive and very important," said Kootenay, who spent much of his younger years on the Alexander First Nations Reserve, northwest of Edmonton before moving to Fort McMurray and then settling in Edmonton. "We make it animate."

For *All My Relations*, Kootenay listed a retail price of \$1200. If the school receives even half of that amount he said he'd be happy.

Sarah Pocklington, a professor at the School of Native Studies, organized the auction after a suggestion from her artist mother, Lou P. Cole, who is donating a painting. Receiving work from well-known talents such as internationally acclaimed U of A graduate Jane Ash Poitras, as well as Kootenay, makes the auction exciting, said Pocklington.

"Clayton is absolutely incredible," she said. "He is an amazing artist and a great, wonderful person. And this is the one time you'll be able to find such a mix of beautiful art under one roof. For the art collector, it's an excellent opportunity."

Pocklington is hoping to collect a minimum of 100 pieces, ranging from moccasins to woodcarvings. So far, Kootenay is the only graduate of the school to donate a piece to the auction. And if Pocklington hadn't approached him about it, that piece of stone may still be sitting in his studio waiting to be brought to life.

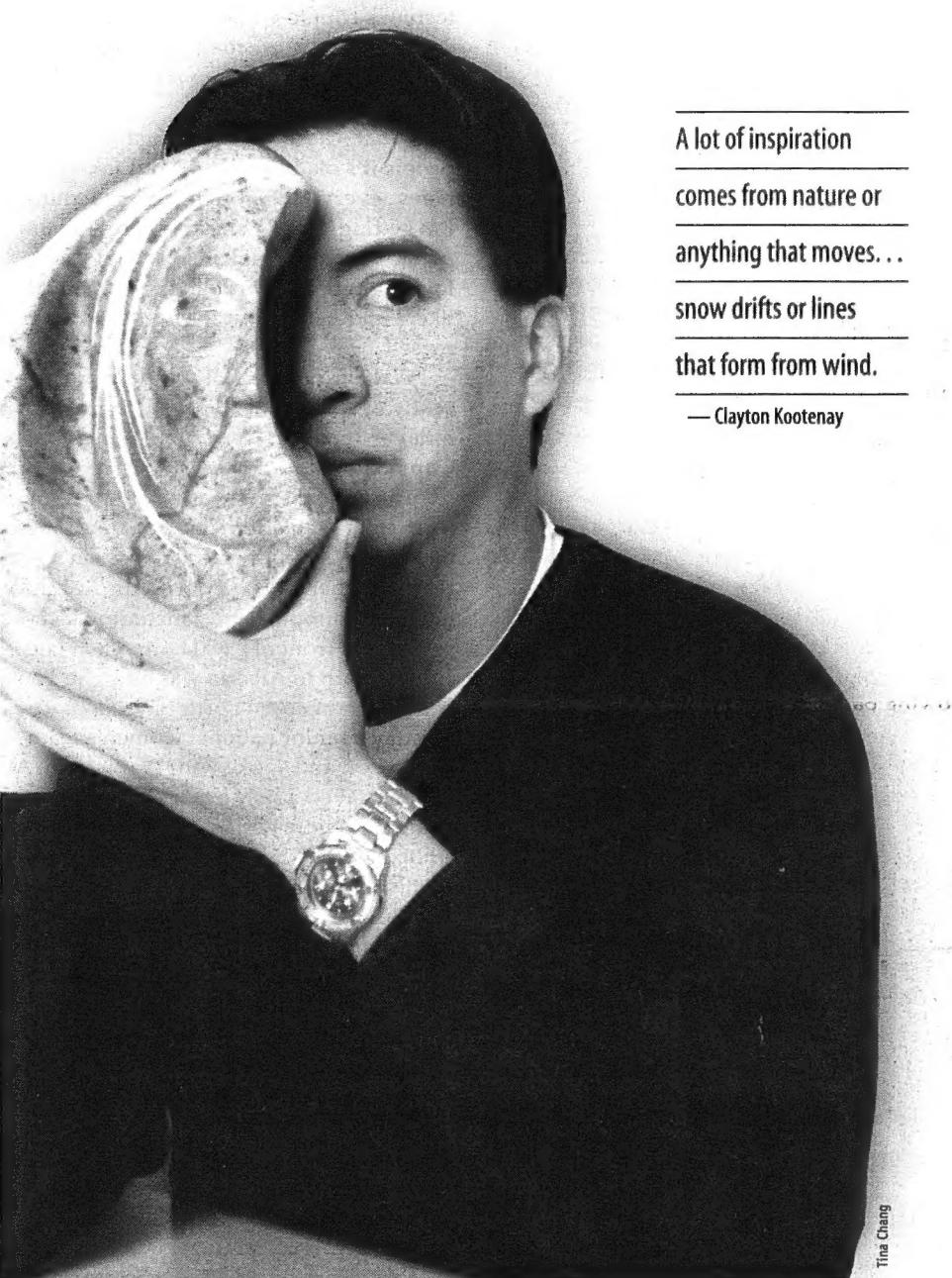


Drum, Lorea Gilmer and Randy Breeuwsma

"The piece stayed there for about four months and when Sarah approached me about doing something I became very inspired and got to work on it right away," said Kootenay, who is currently running a youth program for Treaty 6 First Nations in the province.

"I'm very happy with how it turned out and I try to help the school as much as I can."

The School of Native Studies silent art auction will be held Feb. 28 from 2 to 8 p.m. at Latitude 53 Gallery. For further information, or to make an art donation, please call Sarah Pocklington at 492-2991. ■



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snow drifts or lines
that form from wind.

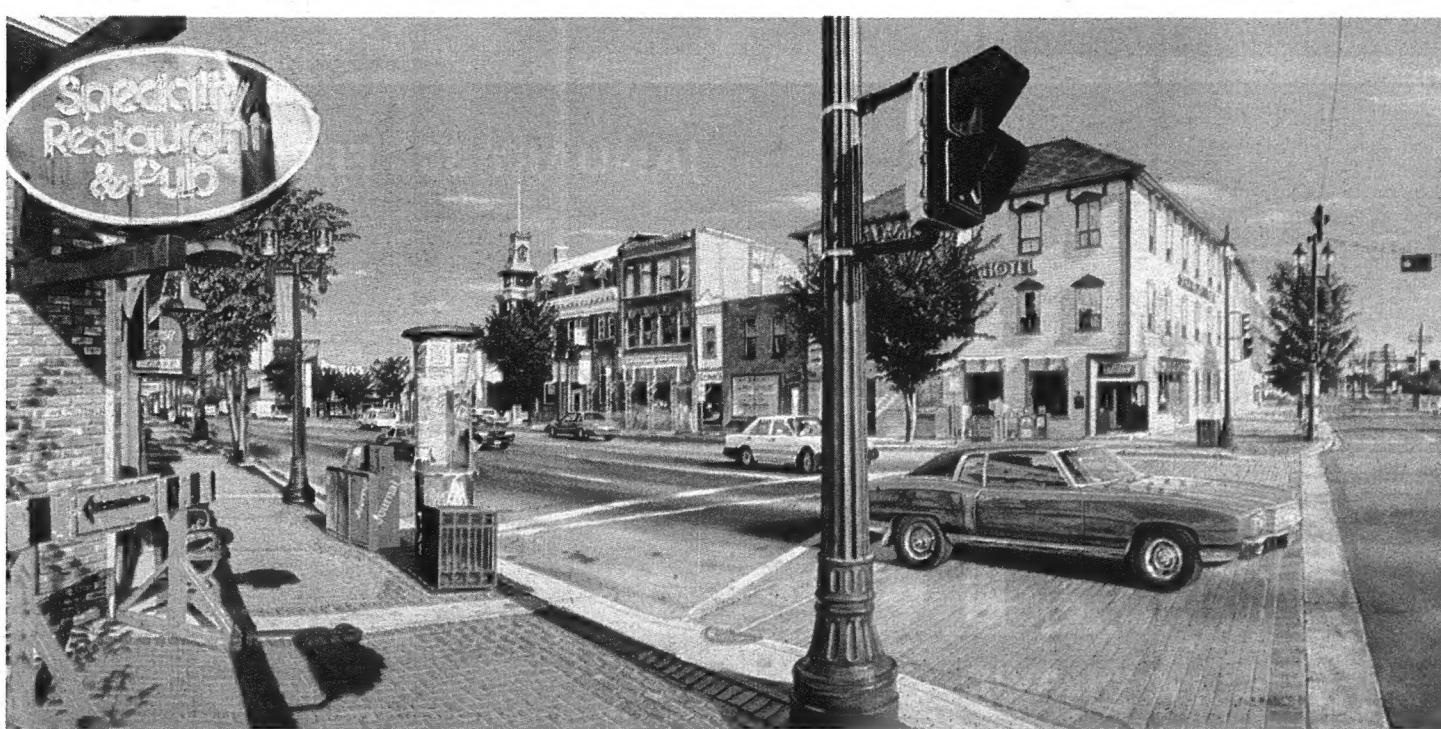
— Clayton Kootenay



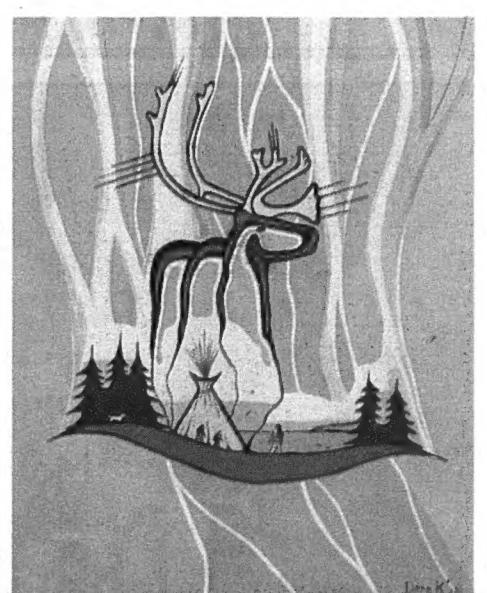
Pink Mountain, Rose Odynski



Repose, Norman Taiffeur



Strathcona Hotel — Whyte Avenue, Jack Martel



Dene K'jii, A Blissfully Life, Roger Deranger

laurels

OFFICER OF THE ORDER OF CANADA

Dr. R. Norman Jones, professor emeritus, Department of Chemistry, was made an Officer of the Order of Canada. Jones' research has become one of the cornerstones of modern molecular spectroscopy. His laboratory flourished after joining the newly founded National Research Council in 1946, where he wrote some of the earliest computer programs for chemical spectroscopy, a method of identifying molecules by light. His investigation results in infrared and Raman spectroscopy are recognized as powerful tools in researching molecular structure. He completed his PhD at Manchester University, studying the structure of vitamin D. His numerous publications in the field of spectroscopy are used by many scientists and students. In addition, he played an important role with the International Union of Pure and Applied Chemistry where he was elected president.

WOLF PRIZE IN CHEMISTRY

The 1999 Wolf prize in chemistry has been awarded to Dr. Raymond Lemieux, professor emeritus, Department of Chemistry, for his fundamental contributions to the study and synthesis of oligosaccharides and to an understanding of their crucial role in biological recognition processes. Lemieux's work in the chemistry of carbohydrates span more than half a century and have led to a transformation of the discipline, now universally recognized as being immensely important in chemistry and biology. After two years at the University of Saskatchewan, he served as a senior research officer at the National Research Council in the 1950s, was affiliated with the University of Ottawa, 1954-61, and then with the University of Alberta until his retirement in 1985. The Israel-based, \$100,000 Wolf prize was established in 1978 to recognize outstanding scientists and artists.

Canadian Federation of University Women Edmonton

1999

MARGARET BRINE SCHOLARSHIP FOR WOMEN

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Applications are available in: Room 105 Administration Building Faculty of Graduate Studies and Research, University of Alberta

Application deadline: March 17, 1999

Swedish volleyball player is Pandas' top hitter

Physe student finds lots to learn on and off the court

By Dan Carle

The Pandas volleyball program this decade has risen from nowhere to being feared everywhere.

And they bring people in from everywhere to keep the reputation rolling.

People like Maria Wahlstrom. "It's cold and snowy, but Edmonton is a lot like Sweden I think."

The 24-year-old left-side hitter is one of the Pandas five new starters this season

as the team clearly has its sights set on a fifth consecutive national title March 5-7 at Varsity gym.

"My hometown is Stockholm," says Wahlstrom, a first-year physical education student at the University of Alberta who played club volleyball for four years at Orebro, a two-hour drive from home.

Now home is another world.

"I didn't realize before how hard it would be. I lived away from home since I was 16. But it's hard being so far away from home. And I really, really miss my friends. I had a social net, and here I don't have anybody. But I'm getting to know people better every day, so I'm learning."

Wahlstrom's learning curve takes a tortuous course — gaps in culture and communication are inescapable on the court, in the convenience store and in the classroom.

"That's hard. It's hard. Just talking to people it's ok, but reading and taking notes... everything goes fast. I'm learning. I'm getting better," she says, proving the point. "We took English in school since fourth grade and through high school. So, like, I understand but it's harder to express myself."

Wahlstrom was full of expression recently as she finished as the Pandas' top hitter — the team went 5-0 to win the Sask Cup holiday tournament at Saskatoon.

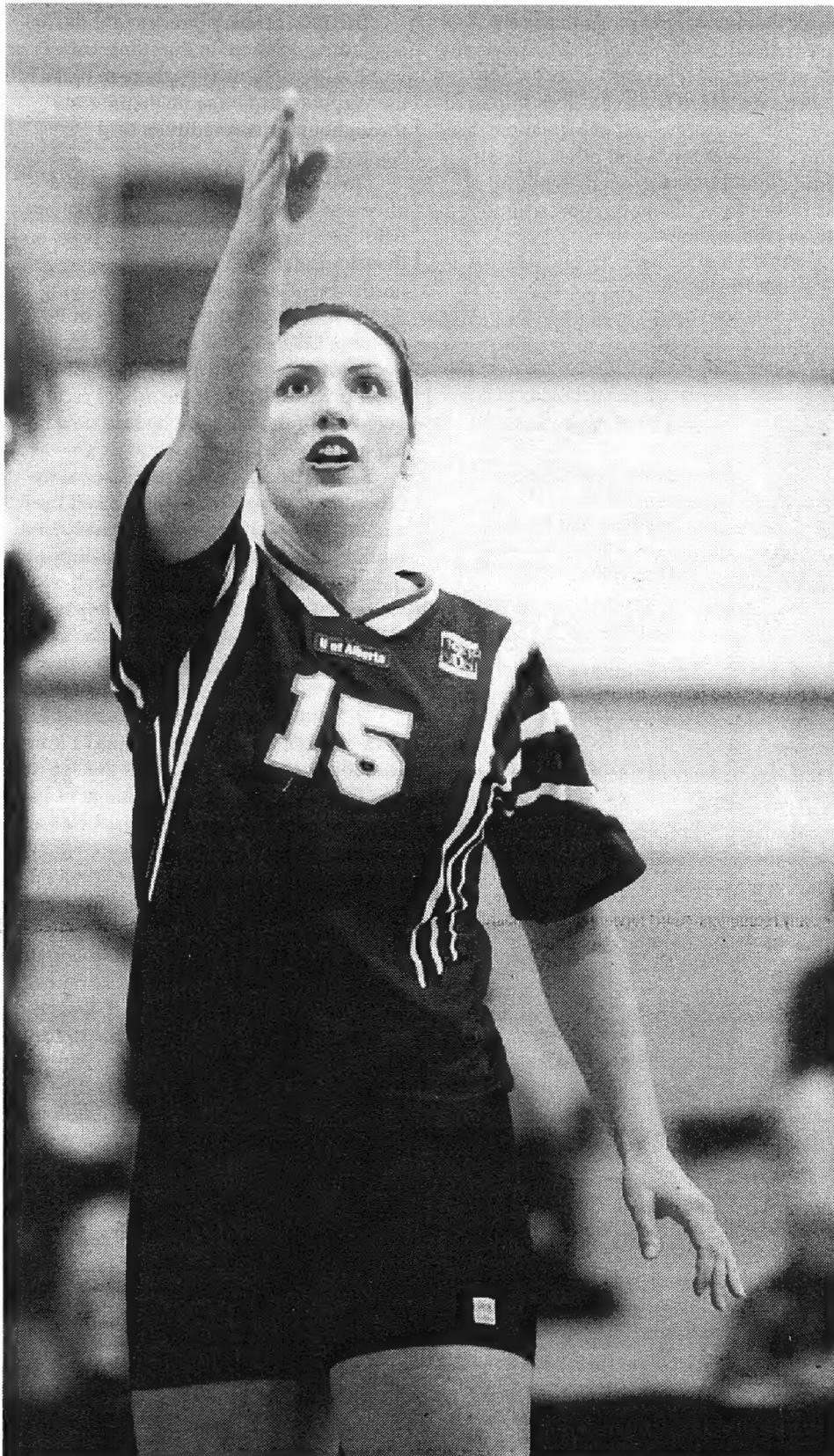
The Pandas' status as a national elite team suits Wahlstrom just fine. She plays on Sweden's senior national women's team, and her club team won the last three national championships, including last season's in front of 2,000 hometown fans.

Her path to Alberta was straight. Pandas' assistant coach Lorne Sawula coached Sweden's senior national women's team last season and spoke with Wahlstrom. At 24, she craved a new experience and wanted to come to Canada "instead of the United States." Sawula's suggestion frees Wahlstrom to continue national training in the summer. She'll return to Stockholm this spring.

"The top teams in Sweden are better but this team would probably be in the middle of the league in Sweden," Wahlstrom says, noting travel and sacrifice are part of any championship package.

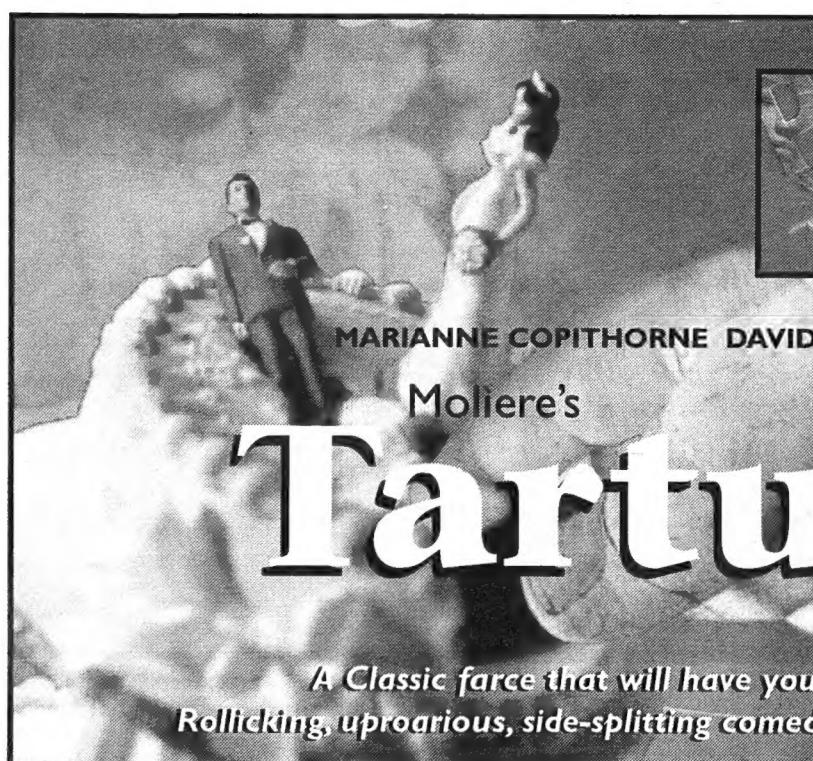
"I compare a CIAU title to the titles I won in Sweden. I can feel it when they talk about it. It would be really good to do it with this team — you know, my new friends, my new teammates."

"You learn so much about yourself being away." ■



David Williamson

Pandas volleyball player, Maria Wahlstrom.



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by DAVID KING

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University looking at three locations for 2001 practice field

By Geoff McMaster

The 2001 Games may be more than two years away, but the university community is already off and running on discussions about where to put a practice field.

There are now three locations under consideration for an eight-lane track with a natural grass infield, including permanent seating for about 3,000, dressing rooms and concession areas. But Vice-President (finance and administration) Glenn Harris says there's still much work to do before any final site decision is made.

"We're not settling on a particular option until we've had an opportunity to get some reactions from some different interested parties," he says. The university has had regular meetings with community representatives over the past few weeks and has only begun negotiations with the province to secure land for one of the options.

The three locations under consideration are:

- **Campus facilities.** Closest to home, the university would revamp its existing track and field next to the Van Vliet Centre. This might seem like the easiest solution, but the downside is the field is too small for events such as javelin, hammer throw, discus and steeplechase. If upgraded, an eight-lane track facility would come within six inches of existing property lines and roadways. Physical education officials say the facility is already overused. Dale Schulha, the faculty's alumni affairs and development director, argues it would be "very short-sighted of the university if we looked at jamming a new facility in there...it just doesn't make a lot of sense, and we're strongly opposed to that."

- **South Campus (West 240).** This undeveloped land would be easier to work with and imposes fewer constraints. Situated a reasonable distance from neighbors, it would accommodate sufficient parking, provide good vehicular access, and involve minimal interference with agricultural research. Some of the disadvantages are: it's the farthest from campus facilities, has no utility services (telephone, electrical, sewer), may contribute to traffic congestion and has poor transit access.

- **Provincial land.** Undeveloped land between the Neil Crawford Centre and the Alberta School for the Deaf. This site would leave a large buffer zone between itself and neighbors, would easily accommodate parking, and has excellent vehicular and transit access. Facilities here could be integrated into an environmentally friendly park-like setting, and could allow for future development of a sport science centre or expanded Rick Hansen Centre. The land, however, would have to be acquired from the province and is two kilometres from campus facilities and residences. It has no utility services, may cause undesirable levels of noise and traffic, and could be subject to odors from animal barns.

Although community representatives have not yet decided which of the three options is preferable, neighborhood alliance member Kathie Brett said she and her colleagues have been pleased with the consultation process, "despite people's initial suspicions." However they continue to stress the need for careful long-term planning and the proper handling of potential traffic problems connected with the south sites.

"It's a bit of a concern just arbitrarily plunking something somewhere to meet short-term needs," she says. Neighbors are especially worried about further congestion along the notorious 114th corridor.

Apart from the immediate needs of the games, however, Brett says she's hopeful the consultation process will usher in "a whole new era" for university planning.

"Before this the university had no standardized method for consultation, and that's what we've devised," she says. "What we're doing now is like a dry run with the 2001 games. Once we finish this particular issue, then we sit down, go back over the protocol and make it even more perfect."

"That may be, as far as the community is concerned, one of the most important legacies of this whole thing...we know we'll be consulted." ■

THE CONSULTATION PROCESS

- All members of the campus and surrounding community will be invited to attend a public meeting to consider site options. Community members may also express their concerns in writing.
- The university will prepare a summary document reflecting the concerns and comments of the community. Community members will be invited to review the document for accuracy.
- When designs have been drawn, community members, staff, faculty and students will again be asked for input.
- Any recommendations forwarded to the Board of Governors for final approval will include summary and highlight documents outlining the community consultation process.
- Upon completion of the project, neighbors, faculty, staff and students will be invited to an open house celebration.

GROUPS WITH WHICH THE UNIVERSITY IS CONSULTING:

The Province of Alberta
The City of Edmonton
Athletics Alberta
Football Alberta
Soccer Alberta
Community league representatives
Facilities Development Council of GFC
Board of Directors, 2001 games



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A petition to the Canadian Government to remove the "supremacy of God" phrase from the preamble to the Charter of Rights and Freedoms, and to constitutionally ensure freedom from religion as well as freedom of religion for all Canadians is in circulation.

For a copy, contact:
Fax: (250)578-0452
email: wayman@junction.net

EFF—University Teaching Research Fund APPLICATION DEADLINE

The deadline for receipt of applications to the EFF — University Teaching Research Fund is February 15, 1999.

This fund was established to encourage and support research on teaching-learning. The primary purpose of this fund is to enhance the level and quality of teaching research and curricula development in the university. Funding priorities include research projects that have the potential of contributing to the increased effectiveness of university teaching, learning, and curricula development.

Application forms are available from the Office of the Associate Vice-President (Academic), 3-12 University Hall; phone 3836.

NOTICE TO ALL TRUST HOLDERS

The Job Evaluation and Compensation Unit has developed an introductory set of benchmarks to assist you in assigning a suitable grade level when hiring casual, temporary or trust employees. We are in the process of creating benchmarks for many types of support positions found on campus. These new benchmarks will be developed within the next few months and will be issued as they are completed. Copies of these benchmarks may be obtained from:

- Department APOs/FSOs
- Department personnel contacts
- Human resource services reception (ext. 4555)
- Job Evaluation and Compensation Unit: Herb King (ext.3698), herb.king@ualberta.ca; William Betteridge (ext.0725), william.betteridge@ualberta.ca; Loverne Gretsinger (ext.8165), loverne.gretsinger@ualberta.ca.

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Complete the entry form and return by campus mail to:
Office of Public Affairs, 400 Athabasca Hall

Draw date: Thursday, February 4, 2 p.m.

Congratulations to last issue's winner: Leslie Vermeer, U of A Press

Name:

Office Address:

Office Phone:

Home Phone:

Catherine Fletcher, Dentist BA(Hon), M.Sc., D.D.S. Mai Diab, Specialist in Pediatric Dentistry D.D.S., M.Sc.

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<http://www.hfs.ualberta.ca/>

 **Housing and Food Services**
University of Alberta



Lister Hall

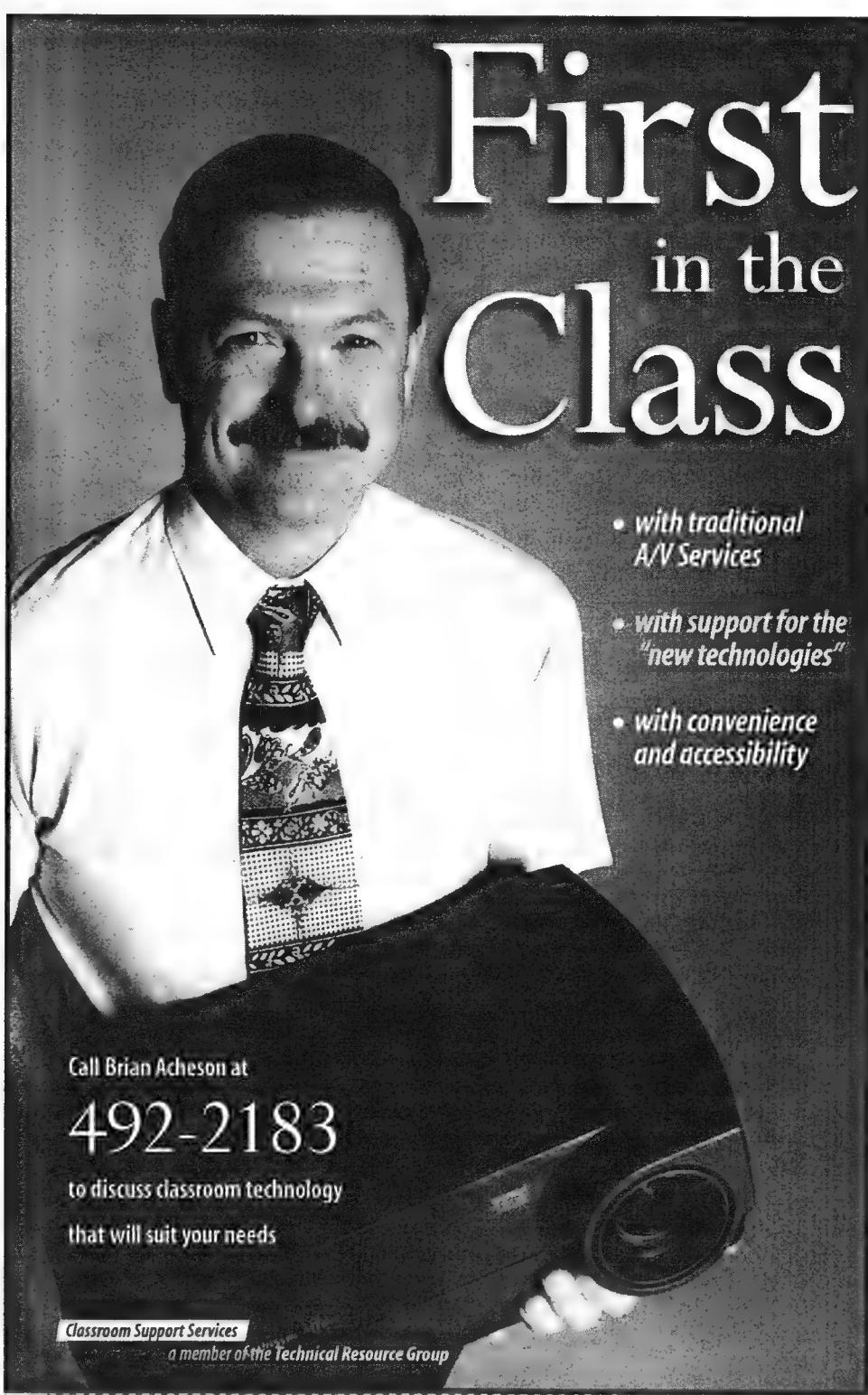
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talks

Submit talks to Tamie Heisler by 9 a.m. one week prior to publication. Fax 492-2997 or e-mail at public.affairs@ualberta.ca.

BIOLOGICAL SCIENCES

DEPARTMENTAL SEMINAR SERIES

January 29, 3:00 pm

Stanley B Kater, "The Other Half of the Brain: Glial Contributions to Nervous System Function." 3-27 Earth Sciences Building.

ECOLOGY SEMINAR SERIES (PART OF THE BIOLOGY 631 SERIES)

January 29, noon

Christoph Rohner, "Predator-prey Cycles in the Boreal Forest: Behavioural and Population-level Consequences in Owls." G-116 Biological Sciences Building.

February 5, noon

J Brad Stelfox, Forem Consulting Ltd; Shawn Wasel, Alberta Pacific Forest Industries Inc; and Jack O'Neill, Alberta Pacific Forest Industries Inc, "Alberta's Boreal Forest: A Landscape in Transition. Implications for Sustainable Land Use." G-116 Biological Sciences Building.

MOLECULAR BIOLOGY AND GENETICS RESEARCH GROUP (PART OF THE GENETICS 605 SERIES)

February 5, 3:30 pm

Bill Brook, "Cell Interactions Controlling Axis Formation in Limb Development." G-116 Biological Sciences Building.

February 12, 3:30 pm

Richard Britten, "Importance of Non-conservative Double Strand Break Repair as a Determinant of Radiation Sensitivity." G-116 Biological Sciences Building.

PHYSIOLOGY AND CELL DEVELOPMENTAL BIOLOGY SEMINAR SERIES (PART OF THE BIOLOGY 642 SERIES)

February 3, noon

Amy Tse, "Multiple Signaling Mechanisms Control ACTH Secretion from the Anterior Pituitary." G-114 Biological Sciences Building.

February 10, noon

Susan Jacobs-Kaufman, "The Control of Blood Volume During Septic Shock." G-114 Biological Sciences Building.

CANADIAN INSTITUTE OF UKRAINIAN STUDIES

February 8, 3:30 pm

Brian Cherwick, "The Vinyl Community: Commercial Sound Recordings and Ukrainian Consciousness." 352 Athabasca Hall.

COMPUTING SCIENCE

February 8, 3:30 pm

John Daigle, University of Mississippi, "Designing Wireless Cellular Access Systems for Future Internet Services." 112 V-Wing.

EARTH AND ATMOSPHERIC SCIENCES

January 29, 3 pm

Karen Smoyer, "Health in the Greenhouse: Climate Change and Human Health." 3-36 Tory Building.

1999-2000

KILLAM ANNUAL PROFESSORSHIPS



Applications for the 1999-2000 Killam Annual Professorships are now available. All regular, continuing, full-time, academic faculty members who are not on leave during 1999-2000 are eligible to apply. Deans, department chairs and other senior university administrators with personnel responsibilities shall not normally be eligible for Killam Annual Professorships. Associate deans and associate department chairs are eligible providing they do not have personnel responsibilities. Up to eight Killam Annual Professors will be selected by a subcommittee of the Killam Trusts Committee; no more than two professorships shall be awarded to staff members in any one faculty. Each Killam Annual Professor shall be presented with a \$2500 prize and a commemorative scroll. The duties of Killam Annual Professors shall not be changed from those that they regularly perform as academic staff members.

The primary criterion for selection shall be a record of outstanding scholarship and teaching over three or more years as evidenced by any or all of research publications, creative activities,

presented papers, supervision of graduate students, and courses taught. The secondary criterion shall be substantial contributions to the community beyond the university, as evidenced by community involvement directly linked to the applicant's university responsibilities and activities.

Awards are tenable for 12 months commencing July 1, 1999. The completed application must be received at the Office of the Vice-President (Research and External Affairs), 3-7 University Hall, by **Friday, February 26, 1999 at 4:30 p.m.** The awardees shall be announced by early May, and they will be formally recognized at the Killam Dinner in the autumn of 1999.

Applications and further details are available on the home page of the Vice-President (Research and External Affairs) at: www.ualberta.ca/~univhall/vp/vprea/awards.html

Please contact Annette Kujda, administrative assistant, Office of the Vice-President (Research and External Affairs) at extension 8342 or email: annette.kujda@ualberta.ca if you have any questions.

February 5, 3:30 pm
Quentin Pittman, Department of Medical Physiology, University of Calgary, "Back Talk in Neurons; Retrograde Transmission in the Magnocellular System." 207 Heritage Medical Research Centre.

PUBLIC HEALTH SCIENCES

February 3, noon
Francis Lau, "Fostering an Internet Based Collaborative Work Group Through Action Research." Classroom D, 2F1.04 Mackenzie Health Sciences Centre.

RELIGIOUS STUDIES

February 11, 3:30 pm
Andrew Gow, "Luther Reads Lyra and Rashi: Prolegomena to a Study of Christian Appropriations of Hebrew Scripture." 326 Arts Building.

RENEWABLE RESOURCES

February 4, 12:30 pm
Tom Brierley, Pedologist, Land Resource Sciences Section, Agriculture and Agri-Food Canada, Edmonton, "Alberta Soil Resource Information: Past, Present and Future." 2-36 Earth Sciences Building.
February 11, 12:30 pm
Peter Lee, Executive Director, World Wildlife Fund, Edmonton, "Alberta's Special Places 2000: An Extraordinary Public Policy Failure." 2-36 Earth Sciences Building.

events

EVENTS

CAPS CAREER FORUM

February 2-4
Career and Placement Services (CaPS) is hosting the following Career Forums:
Human Resources on Tuesday, February 2, 5 p.m.
Economics on Wednesday, February 3, 5 p.m.
Anthropology on Thursday, February 4, 5 p.m.
For more information visit our Web site — www.ualberta.ca/caps or call 492-4291.

EXHIBITIONS

FAB GALLERY

Until February 7
"Artur Augustynowicz"—this exhibition is the final visual presentation for the degree of Masters of Fine Arts in Painting. Hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 to 5 pm; Monday, Saturday and statutory holidays, closed. 1-1 Fine Arts Building.

MCMULLEN GALLERY

January 21 to April 25
"No quiet within: recent gifts to the University of Alberta Art and Artifact Collection"—an exhibition of works of art donated to the University of Alberta over the past five years. More than 40 works have been selected from the 400 works of art donated during this time. Included are paintings, prints and print portfolios by notable Canadian artists Illingworth Kerr, Stanley Cosgrove and Liz Ingram, as well as internationally recognized artists Ryoji Ikeda, and Stanislaw Fijalkowski, to name just a few. The McMullen Gallery is operated by the Friends of the University of Alberta Hospital. Hours: Monday through Friday 10:00 am to 4:00 pm; Saturday and Sunday 1:00 - 4:00 pm; Monday, Tuesday, Wednesday 4:00 to 8:00 pm. All hours are subject to the availability of volunteers. For further information contact Mu-

UNIVERSITY TEACHING SERVICES

February 1, 3 pm
Robert de Frece, "Creating a Positive Classroom Climate." 281 CAB.
February 2, 4:30 pm
Brad Hestbak, "Make Your Poster Session Work for You." 3-5 Business Building.
February 3, 5 pm
Katy Campbell, "Making a Presentation I: Supporting Instruction with Electronic Presentations." 1-9 Business Building.
February 4, 3:30 pm
Olive Yonge, "Boundary Crossings in Student-Teacher Relationships." 281 CAB.
February 8, 5 pm
Wenran Jiang, "Teaching Political Science with WebCT." 1-9 Business Building.
February 9, 3 pm
Larry McKill, "Tips for Marking Written Assignments." 281 CAB.
February 10, 2 pm
Janice Picard and Stanley Varnhagen, "Evaluating Videoconferencing." 205 Administration and 2-34 University Extension Centre (please come to either room).
February 11, 2 pm
Sonja Arntzen and Janice Brown, "Creative Projects in Teaching." 281 CAB.

seums and Collections Services at 492-5834. Mackenzie Health Sciences Centre.

MUSIC

DEPARTMENT OF MUSIC

January 29, 8 pm
Music at Convocation Hall Series featuring faculty members Martin Rieseley (violin), Tanya Prochazka (cello) and Stephane Lemelin (piano). Admission: \$10/adult, \$5/student/senior. Convocation Hall, Arts Building.

January 30, 8 pm
Visiting Artist Recital featuring Robert Spring with Allison Storochuk, clarinets. Admission: \$10/adult, \$5/student/senior. Convocation Hall, Arts Building.

February 5 and 6, 8 pm
Opera Performances—Alan Ord, director. Admission: \$7/adult, \$5/student/senior. Convocation Hall, Arts Building.

February 6, 2 pm
Flute masterclass with Robert Aitken. Participant: \$40, Auditors: \$10. Winspear Centre for Music.
February 7, 8 pm
TriBACH Concert. Robert Aitken, flute and Janet Scott Hoyt, piano. Admission: \$7/adult, \$5/student/senior. Convocation Hall, Arts Building.
February 10, 8 pm
The University of Alberta Symphonic Wind Ensemble Concert. Fordyce C Pier, director. Admission: \$7/adult, \$5/student/senior. Convocation Hall, Arts Building.

THEATRE

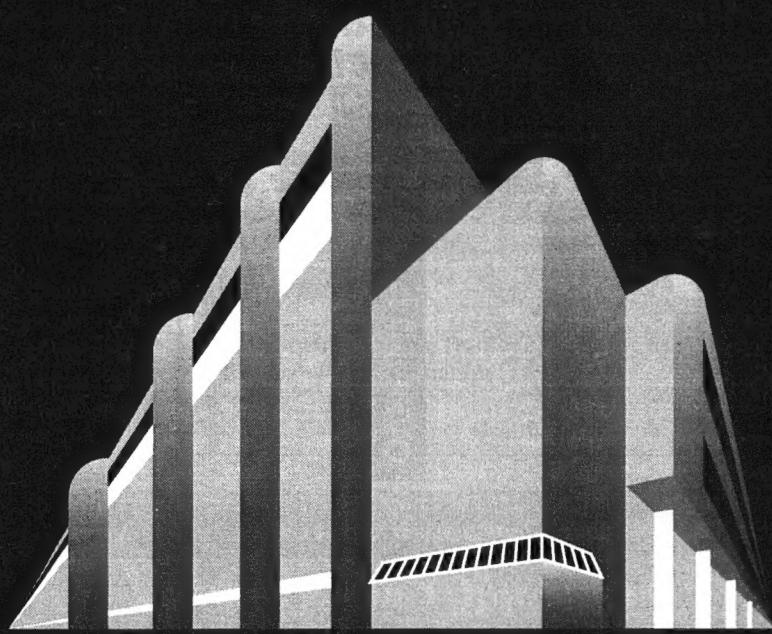
STUDIO THEATRE

February 3 to 13
"As You Like It" by William Shakespeare. Tickets: 492-2495. Timms Centre for the Arts.



University of Alberta

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positions

The University of Alberta is committed to the principle of equity in employment. As an employer we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities. In accordance with Canadian Immigration requirements, preference will be given to Canadian citizens and permanent residents.

COORDINATOR (UNDERGRADUATE PROGRAM) FACULTY OF NURSING

The Faculty of Nursing is seeking to fill a full-time contract position of coordinator (undergraduate program). This position, beginning with a one-year term, reports to the associate dean, undergraduate education.

The primary responsibilities associated with this position include the following:

- recruiting and hiring sessional teaching faculty in consultation with the associate dean
- arranging clinical placements in consultation with faculty, collaborative partners and external placement agencies
- overseeing arrangements for timetabling and scheduling of all undergraduate nursing courses, including supervision of the associated support staff
- assisting with student advisement in terms of course availability and clinical placements
- coordinating Special Sessions offerings
- executing other related duties, as assigned by the associate dean

The ideal candidate possesses an undergraduate degree in nursing as well as an applicable graduate degree and has 3-5 years of administrative experience, either in a post-secondary or a health-care environment. Previous experience as a team member in the development, management and implementation of complex projects will be an asset. Computer literacy is required as well as exceptional interpersonal, organizational, negotiation and communication skills (verbal, written, presentation). An essential attribute is the desire to take full responsibility for the completion of deliverables under your control.

The closing date for applications is February 5, 1999. We thank all applicants but advise only those selected will be contacted for a scheduled interview within three weeks.

Please forward your letter of application, résumé and salary expectations to:

Dr. Lillian Douglass
Associate Dean (Undergraduate Education)
Faculty of Nursing
3rd Floor, Clinical Sciences Building
Edmonton, Alberta
T6G 2G3

II. provide advice and consultative services on conflict or discrimination issues to senior administration, deans, directors, department chairs, and unit supervisors

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The individual will have a university degree or equivalent level of knowledge and experience. Preference will be given to those candidates with certification in conflict management and who have experience working in a campus environment.

NOTE: An incumbent on a term appointment is a strong candidate for this continuing appointment.

Should you wish to be considered for this position, please forward your résumé and the names of three referees by February 8, 1999 to:

Janet Smith
Senior Human Rights Adviser
University of Alberta
Office of Human Rights
252 Athabasca Hall
Edmonton, AB T6G 2E8
Phone: (780) 492-7325
Fax: (780) 492-2990

EXECUTIVE ASSISTANT TO THE DEAN FACULTY OF PHYSICAL EDUCATION AND RECREATION

The Faculty of Physical Education and Recreation at the University of Alberta, invites applications for the position of executive assistant to the dean. Specific accountabilities will include budget development and monitoring, database development and management and support for specific faculty committees.

The successful candidate will have excellent communication, problem solving, decision-making, and team building skills. Applicants will possess substantial management experience in a university or similar setting in addition to post-secondary education in administration/business or equivalent (minimum undergraduate degree required) and knowledge of the field of physical education and recreation would be an advantage. Advanced computing skills are essential.

This is a continuing APO position. The position commences immediately.

Salary range: \$36,375-\$54,567 commensurate with education and experience.

Please submit your résumé in confidence by Thursday, February 11, 4:00 p.m. to:

Dr. Art Quinney
Dean, Faculty of Physical Education and Recreation
W1-34 Van Vliet Centre
University of Alberta
Edmonton, AB T6G 2H9
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CHARTERED ACCOUNTANT

U of A Accommodation Guide

These facilities have contracted with the University of Alberta to provide accommodations at the rates indicated. Each facility has unique features and offers something to suit everyone's taste.

To accommodate special guests to the University, reservations can be made using the Hotel Authorization Program (HAP) form which allows post-payment by the hosting department.

These rates are per night and are exclusive of convention conference rates which are established by conference/convention organizers. Rates valid to December 31, 1999 unless otherwise noted, taxes not included.



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For further information about booking these facilities, contact Joyce Assen at 492-5530, or visit our website: <http://www.financial/ualberta/ca/travel/>

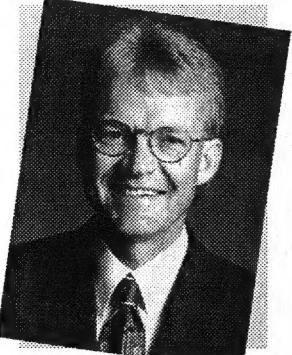
APO Learning and Development presents Simple Living in a Complex World: Confronting Barriers and Rekindling Vitality

Wednesday, February 16, 1999 • Banquet Room, Lister Hall

- Deal with change and uncertainty with confidence by moving through transitions.
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- Stay sane in the chaos.

9:00 - 10:00 am	Coffee and muffins
10:00 - 10:15 am	Greetings and announcement of Learning and Development activities
10:15 - noon	Keynote address by David Irvine
Noon	Luncheon
1:00 - 4:00 pm	Interactive workshop
4:00 - 6:00 pm	Wine and cheese - draw for grand prizes

David Irvine, keynote speaker and author of *Simple Living in a Complex World*



Among many other prizes, you could win a trip for two or a gift certificate for professional development.

Please mark your calendars today and plan on attending! This event will give you an opportunity to network and socialize with your friends and colleagues and to explore new ways of personally rekindling vitality.

Cost: \$25.00

For more info, contact: Elsie Mahé - Human Resource Services - 2-40 Assiniboia Hall • Phone: 4350 • Fax: 3800 • E-mail: elsie.mahé@ualberta.ca

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CALL NOW! To buy, sell, lease a condominium. \$49,000 to \$450,000. Please ask for Connie Kennedy, condo specialist/consultant, 25 years' expertise. Re/Max, 482-6766, 488-4000.

CENTRAL - ROSSDALE - unique contemporary home in heart of the city. Living area on upper level. Fully finished basement. February 1. \$1,500/month. Janet Jenner-Fraser, Gordon W.R. King & Assoc. Real Estate, 441-6441.

WE VALLEYVIEW - extensively upgraded bungalow in quiet crescent. Three bedrooms up, two down. Many modern features. Furniture available if needed. \$1750/month. Immediate. Janet Jenner-Fraser, Gordon W.R. King & Assoc. Real Estate, 441-6441.

WE WOLF WILLOW ROAD - executive four bedroom, two storey fully furnished. Available February 1, 1999 - July 31, 1999. \$1350 negotiable. Janet Jenner-Fraser, Gordon W.R. King & Assoc. Real Estate, 441-6441.

TWO BEDROOM MAIN - McKernan (79 Avenue), full basement, newly painted, redone hardwood on main, yard, garage. Quiet yet central location. Caring tenant required. \$625 plus utilities, Janet Jenner-Fraser, Gordon W.R. King & Assoc. Real Estate, 441-6441.

SASKATCHEWAN DRIVE PENTHOUSE, two storeys, 2000', two bedrooms, 2 1/2 baths, furnished, two underground parking stalls. Fireplace, airconditioned, jacuzzi, cable TV, exercise room, games room, pool, sauna, whirlpool. \$2500 month. 707-4347.

CHARMING, IMMACULATE STRATHCONA BUNGALOW - 2+1 bedrooms, hardwood throughout, washer, dryer. \$750/month, quiet couple, additional \$250/month extra person. Jim, evenings, 433-7298.

SUBLET - ONE BEDROOM. Lovely furnished suite. Approximately March - October. \$650 monthly. Responsible, mature, nonsmoker. No pets. 488-6192.

IDEAL FOR VISITING SCHOLAR - furnished room with ensuite bath. Main floor, faculty home. Non-smokers. Breakfast, dinner included. David, 492-3433, 469-8877, david.jones@ualberta.ca

ACCOMMODATIONS FOR SALE

VICTORIA PROPERTIES - knowledgeable, trustworthy, realtor with Edmonton references. Will answer all queries, send information, no cost/obligation. "Hassle-free" property management provided. 250-383-7100, Lois Dutton, Duttons & Co. Ltd. #101 - 364 Moss Street, Victoria, B.C. V8V 4N1

BELGRAVIA, \$169,500. Lovely, updated 1340' 1 1/2 storey. Immaculate, treed yard. Ed Lastiwka, Royal LePage, 431-5600.

FIVE BEDROOM HOUSE NEAR UNIVERSITY - beautifully landscaped, 30' livingroom, French doors, deck, single attached garage. \$212,000. (780) 433-8322.

NEW LISTING! Lansdowne, \$145,000. Three bedroom bungalow, hardwood, fireplace, double garage, good location. Liz Crockford, Re/Max, 438-7000.

BY OWNER - Ideal residence; second floor condo, two bedrooms, ensuite, large rooms. Balcony, in-suite laundry, six appliances, move-in condition. Full indoor recreation facility, covered carport. Close transport, university, shopping, ravine trails, Snow Valley. \$95,500. Offers considered, 435-2350, 454-0673.

WISH TO SELL - Riverbend two bedroom condo, \$69,500. 435-3174.

NORTH WINDSOR PARK - Five bedroom house. Excellent condition. 492-3519, 433-3895 evenings, ghughes@phys.ualberta.ca

ACCOMMODATIONS WANTED

FAMILY SEEKING THREE-FOUR BEDROOM HOUSE to rent. One year from May/June 1999. Please contact Ray, 483-0960.

WANTED - HOUSE FOR RENT - Married couple (U of A graduates and former Edmonton residents) wish to rent family home for 2-3 weeks in August

1999; university area, southside, or westside preferred. John and Jean Hudson, 4 The Brambles, Barrow, Clitheroe, Lancashire, England, BB7 9BF. Telephone: 01254-824481.

AUTOMOBILES

1986 TOYOTA CELICA GTS, red coupe, 138K. Good condition inside and out. \$3650. OBO, 454-0673.

GOODS FOR SALE

CASH PAID for quality books. The Edmonton Book Store, 433-1781.

SERVICES

TECH VERBATIM EDITING - APA, Chicago; medical terminology; on campus. Donna Maskell, 922-6263.

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notices

Please send notices attention Folio 400 Athabasca Hall, University of Alberta, T6G 2E8 or e-mail public.affairs@ualberta.ca. Notices should be received by 3 p.m. one week prior to publication.

SEEKING VOLUNTEERS FOR BRAIN INJURIES STUDY

Learning how to read and speak all over again can be a slow, frustrating process for brain-injured people. A temporary or permanent loss of these basic skills has devastating effects on quality of life, including employment. AHFMR researcher, Dr. Lori Buchanan is using high-powered magnetic resonance imaging (MRI) to better understand how undamaged areas of the brain's language centre work. Dr. Buchanan is currently seeking volunteers with brain injuries to take part in her study. For further information, please call the Department of Psychology at 492-5216.

DIABETES EDUCATION RESEARCH

Diabetes can be difficult to manage and education may help people with diabetes achieve better blood sugars. A research project is commencing to see if pharmacists with diabetes educator certification can help people with Type 2 diabetes. These pharmacists will meet regularly with people with Type 2 diabetes, and provide diabetes education, which will include helping with medications, and referrals to other health professionals such as physicians, dieticians and metabolic clinics. For more information, please contact Lisa at 492-0092.

COUNSELLING AVAILABLE AT THE HOPE FOUNDATION

The Hope Foundation makes counselling available to people who struggle with physical and mental illnesses or other serious problems. The foundation uses hope-focussed counselling which emphasizes hope and broadens options limited by hopelessness. Fees for counselling are based on a sliding scale. For more information, contact the Hope Foundation at 492-1222.

U OF A CONSTRUCTION PROJECTS

Information sessions will be held:

Tuesday, February 9th

11:30am - 1:30pm • 6:30pm - 8:00pm

Dinwoodie Lounge — 2nd Floor, SUB

on all current and proposed U of A construction projects, including those associated with the 2001 World Track and Field championships, TELUS Centre and the Tennis Centre.

Learn Adobe Photoshop

For Faculty, Staff, and Students

Introduction to Adobe Photoshop Ver. 4.0 will be offered at the Technology Training Centre. Students will learn the basics of inputting, editing, and outputting images for print and web use.

Starts: February 18, 1999

Course runs: 6 Thursday evenings

Time: 6:00 PM to 9:00 PM

Location: B-01 Cameron Library

Cost: \$175.00

For course content information contact Tom Turner at 492-8968 or email: tturner@mercury.ualberta.ca

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Location: U of A Faculty Club (Papas Chase Room)

Time: Noon to approx. 1:30 pm

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Grand Canyon serenade

“Music has taken me to the far corners of the world, but I would never have imagined in my wildest dreams that my cello would bring me to a place where only the very few ever have the chance to go, and then only with adventurous hearts and strong bodies. The privilege of being a musician is inexhaustible ...”

By Geoff McMaster

Imagine you're on a white-water rafting expedition in the Grand Canyon. You've been hiking and fighting rapids all day, and as you sit back to relax after dinner at your campsite you hear the brilliant sounds of concert strings bouncing off the canyon walls.

If you were lucky enough to be in Arizona's jewel last June, you might have basked in such a golden moment. Dr. Tanya Prochazka of the music department was on tour in the stunning natural wonder, performing full-length concerts in the shade of huge rock faces. When she wasn't flying down the Colorado River on

a raft — or hoisting her cello by rope through crevices to just the right venue — she and her colleagues would serenade their raft-mates to the music of Sherbert, Mozart, Hayden, Sibelius, Nielson and Brahms.

“These were not little jingles ... These were full-time concerts that you'd hear in any concert hall, with intermission — the lot. Then we'd hike and raft and go to the next one. There were lots of people from other trips too, so we'd have these growing audiences...sometimes we had up to 100 people. It was absolutely magnificent.”

Prochazka landed this gig of a lifetime after a cellist pulled out of the tour, organized every year by Steve Bryant, principal violinist for the Calgary Philharmonic Orchestra. It didn't take long to twist Prochazka's arm. What musician, after all, wouldn't want to play in a location that's not only one of the most breathtakingly beautiful on the continent but also boasts some of the best natural acoustics to be found anywhere?

“[The acoustics] were magic,” she says, although also “very peculiar. Sometimes you didn't hear yourself, but if you walked a hundred yards away the sound was extraordinary. Or sometimes you'd be in a bowl and the sound would be concentrated fairly near you.” At times there would also be an amphitheatre effect, she says, “where you just needed to drop a pin and the sound would travel up. The audience would sit on ledges above you.”

On a typical day, Prochazka would rise at 4:30 a.m., eat a “fabulous” breakfast prepared by expedition cooks, and then hike to a nearby side canyon for an early morning concert, avoiding the searing mid-day heat. “We would go early and rehearse a bit, then everybody else would come in their own time after breakfast.”

After the instruments were packed up, the rest of the day would be spent on river and trail — 368 km of it to be exact. On some days her quartet would perform an evening concert as well, and everybody would retreat to sleeping bags around 8 p.m.

To buy a ticket with Canyon Explorations, all you need is \$2,500 US and a willingness to brave the Arizona sun for about 18 days. While Prochazka's trip included people of all ages, from a high-school girl of 17 to a grandmother of 68, it was clear everyone had to have their wits about them on this adventure holiday.

“It's not all fun and games...You know you're not in Disneyland. It's the wilderness, or semi-wilderness, and it's very important to respect the elements... It's a very athletic experience — your skin gets all cracked and you end up like an alligator.”

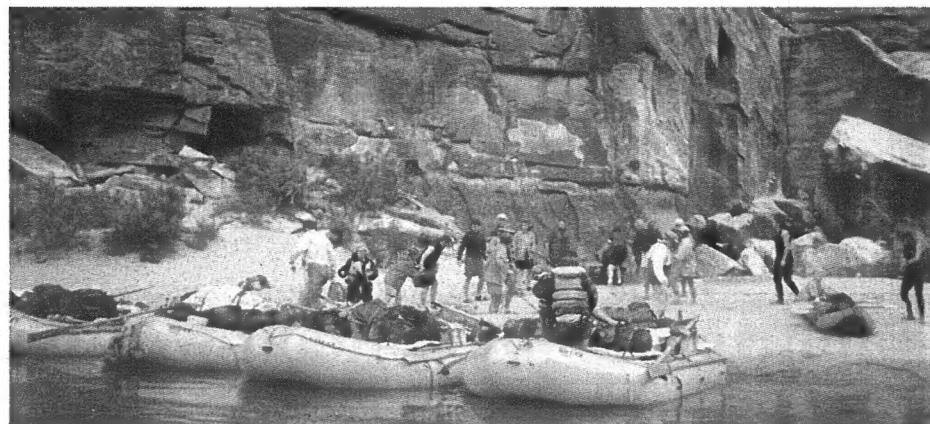
Prochazka expressed her elation in a letter to her daughter, Helenka:

“Music has taken me to the far corners of the world, but I would never have imagined in my wildest dreams that my cello would bring me to a place where only the very few ever have the chance to go, and then only with adventurous hearts and strong bodies. The privilege of being a musician is inexhaustible ...”

“I am still basking in the euphoria generated by the extremely hard work of paddling through rapids, growing skin scales against the sun, heat and water, eating gourmet food, making friends with the river guides who are an amazing breed of human beings, hiking and playing string quartets to my heart's desire.”

Prochazka will have to wait until October, 2000 for her next chance to join the tour. After that, she says she just might hire Canyon Explorations and strike up her own quartet. ■

folio back page



Dr. Tanya Prochazka playing with a string quartet in the Grand Canyon

